

Project	AtlantOS – 633211
Deliverable number	D4.1
Deliverable title	Sea level observing site catalogue: Systematic documentation of South Atlantic tide gauge site data and benchmarks.
Description	This task will develop a comprehensive South Atlantic sea level observing site catalogue (including sensors, benchmarks, maps and images) [D4.1] [NERC-NOC] building on the IOC GLOSS Station Handbook and European Sea Level Service Observing Site specification.
Work Package number	WP4
Work Package title	Interfaces with coastal ocean observing systems
Lead beneficiary	NERC-NOC
Lead authors	Elizabeth Bradshaw
Contributors	(See list of main websites interrogated)
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D4.1: Sea level observing site catalogue

The aim of this deliverable was to produce a comprehensive sea level observing site catalogue to document station information such as instrumentation and benchmark details. This catalogue represents a first attempt at listing tide gauge stations in the South Atlantic, Caribbean, Gulf of Mexico and a small section of Antarctica. Stations from the Caribbean, Gulf of Mexico and Antarctica were included as these regions impact on the South Atlantic Ocean and are also data sparse, requiring attention.

The metadata these listings were created from are stored in a relational database for ease of update and querying. Some of the fields use controlled vocabularies or constrained formats and this is an aspect that could be developed in future versions. It would be useful to control the tide gauge operator name, which would minimise errors.

The beginnings of the catalogue came from the holdings of the Global Sea Level Observing System (GLOSS) data centres. GLOSS was set up in 1985 to collect long-term tide gauge observations and to develop systems and standards "for ocean monitoring and flood warning purposes" and to "support the activities of the Permanent Service for Mean Sea Level". GLOSS is an international programme conducted under the auspices of the Joint Technical Commission for Oceanography and Marine Meteorology (JCOMM) of the World Meteorological Organisation (WMO) and the Intergovernmental Oceanographic Commission (IOC).

There are currently 5 different data streams operated under GLOSS. These are:

- Sea-level monitoring facility (Flanders Marine Institute, VLIZ). Near real-time delivery, plots and downloads of raw data.
- Fast mode data centre (University of Hawaii Sea Level Center, UHSLC). Data delay of 4-6 weeks, preliminary QC data from originators.
- Delayed mode data centre (British Oceanographic Data Centre, BODC). Updated annually, final high frequency data from originators.
- Mean Sea Level (Permanent Service for Mean Sea Level, PSMSL). Updated annually, final monthly and annual means from originators.

The listings of these data centres were interrogated to create a list of known stations.

The next stage was to extract information from the National and Regional reports made to the GLOSS Group of Experts (GLOSS GE) meetings, as well as the data available from the GLOSS ODINAfrica project.

The final stage was to make a web search for tide gauges and tide gauge networks in all the countries that bordered the areas of interest. This increased the listings particularly for Argentina, Brazil, Spain and the United States.

This is not a complete history of the location, instrumentation and operation of each station. Not all information is available for all stations. At some stations, only a description of the most recent instrumentation was available. Where a sampling interval is given, this relates to the most recent instrument. Where there are multiple sensors at a site with differing sample rates, only the highest sampling interval is listed.

One of the most difficult tasks when compiling a list of stations is deciding if stations with similar names are actually the same site or if sites with the same name are actually in different locations. Stations may have been listed with names translated into English, which can lead to duplication, or there may be two names for one site, such as Salamander/Saldanha in South Africa. There are numerous Georgetown's in the Caribbean and without position information or operator details it would be impossible to tell them apart.

It can also be difficult to distinguish one station from another if the position information is given to differing numbers of decimal places. Some station's Lat/Lon position is only reported to 2dp. Others may appear more accurate but this may be due to conversion from degrees, minutes and seconds to decimal degrees. Where possible, the station documentation has been referred to, to see if any further information has been provided, to help unravel a station's history.

It has been difficult to establish the exact installation dates for most stations and, in some cases, to establish if the gauge is still functioning. This has been particularly difficult if the station is not delivering data in a near real-time mode.

When designing the catalogue, a decision was made to include hyperlinks for the more detailed fields such as benchmark information, as including all the descriptions in one field would make it very large. Where possible, links to originators' station documentation have been included. This should help the record stay up to date as changes won't be needed when originators update their information.

The catalogue includes some historical stations that are non-operational, for several decades in some cases. They have been listed though, as it would be preferable for users considering installing new stations to locate them at the same site as previous gauges, or at least to link them to existing benchmarks to ensure a continuous series. It is also possible that historical stations have analogue data (e.g. paper charts or ledgers) that could be rescued as part of data archaeology activities.

There will be a meeting of the GLOSS GE in July 2017 in New York. Tide gauge operators from the Caribbean and South America have been invited to give presentations and it is hoped that this meeting will facilitate the flow of data and metadata from the region. The reports from this meeting will be used to improve the next version of this catalogue.

Explanation of catalogue fields

The format of the catalogue is based on that developed for the GLOSS Station Handbook and European Sea Level Service Observing Site descriptions.

Name	Full name	Null	Type	Description
COUNTRY	Country Code		VARCHAR2(2)	Country where station is located (taken from C32 code table, International Organization for Standardization countries codes)
STAT_NAME	Station Name	NOT NULL	VARCHAR2(100)	Name used by agency responsible for the tide station
LATITUDE	Latitude		NUMBER(7,5)	Decimal latitude (N+, S-)
LONGITUDE	Longitude		NUMBER(8,5)	Decimal longitude (E+, W-)
OPERATOR	Operator		VARCHAR2(150)	Agency responsible for data collection
STARTDATE	Start Date		VARCHAR2(15)	Beginning of time series
ENDDATE	End Date		VARCHAR2(15)	End of time series
DATUM	Datum		VARCHAR2(200)	Specific definition relative to a calculated datum
TIME	Time Offset		VARCHAR2(15)	Offset from UTC
INST_TYPE	Instrument Type		VARCHAR2(500)	General text description of instrument type and history
MEAS_POINT	Site of Measuring Point		VARCHAR2(500)	Explanation of location of sensor and logger instrumentation
BENCHMARK	Benchmark		VARCHAR2(250)	Description of marker and location
GNSS	GNSS		VARCHAR2(250)	Hyperlink to GNSS station information
SAMPINTERVAL	Sampling Interval		VARCHAR2(30)	Time between consecutive samples in minutes
LATENCY	Latency		VARCHAR2(15)	Average transmission delay (minutes)
DEL_METHOD	Delivery Method		VARCHAR2(100)	Protocol type
DATAURL	Data URL		VARCHAR2(250)	Hyperlink to access data
DOCURL	Document URL		VARCHAR2(250)	Hyperlink to access station documentation

List of main websites interrogated to populate the catalogue:

<http://uhslc.soest.hawaii.edu/data/?rq>
http://www.gloss-sealevel.org/data/africa_and_west_indian_ocean
<http://www.gloss-sealevel.org/publications>
<http://www.hidro.gob.ar/oceanografia/mareografos.asp>
<http://www.ioc-sealevelmonitoring.org/list.php>
<http://www.mar.mil.br/dhn/chm/box-estacoes-mareograficas/estacaomare.html>
<http://www.mareografico.unam.mx/portal/index.php?page=Estaciones>
<http://www.psmsl.org/data/obtaining/>
<http://www.psmsl.org/data/obtaining/metric.php>
<http://www.puertos.es/en-us/oceanografia/Pages/portus.aspx>
<http://www.sonel.org/-GPS-24-.html?lang=fr>
<http://www.sonel.org/-Tide-gauges,29-.html?lang=en>
<https://tidesandcurrents.noaa.gov/stations.html>

Country Code	AG
Station Name	Barbuda
Latitude	17.59
Longitude	-61.82
Operator	NOAA / National Ocean Service
Start Date	24-May-11
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9761115
Time Offset	
Instrument Type	Pressure sensor
Site of Measuring Point	On the left of River Wharf.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=9761115
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9761115
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9761115

Country Code	AG
Station Name	Parham (Camp Blizzard)
Latitude	17.15
Longitude	-61.78
Operator	CPACC/MACC
Start Date	16-Jul-98
End Date	
Datum	
Time Offset	
Instrument Type	Acoustic
Site of Measuring Point	Monitoring Station is located on the north side of the concrete "boat house" pier located on the Antigua Defense Force Base at Camp Blizzard
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/stations.xls

Country Code	AQ
Station Name	Almirante Brown
Latitude	-64.9
Longitude	-62.867
Operator	Servicio de Hidrografía Naval
Start Date	1957
End Date	1980
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/858.php

Country Code	AQ
Station Name	Artigas
Latitude	-62.185
Longitude	-58.90167
Operator	Servicio de Oceanografía, Hidrografía y Meteorología de la Armada
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	

Country Code	AQ
Station Name	Bahia Esperanza
Latitude	-63.3
Longitude	-56.917
Operator	Servicio de Hidrografía Naval
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	Antarctic Base Esperanza, Province of Tierra del Fuego, Antarctica and South Atlantic Is.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	

Country Code	AQ
Station Name	O'Higgins
Latitude	-63.32
Longitude	-57.9
Operator	German Aerospace Center (DLR)/Federal Agency for Cartography and Geodesy (BKG, Geodetic Observatory Wettzell)
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar, pressure
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	ftp://ivsc.gsfc.nasa.gov/pub/general-meeting/2016/pdf/029_ploetz_etal.pdf

Country Code	AQ
Station Name	Palmer Station
Latitude	-64.78
Longitude	-64.05
Operator	National Science Foundation
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Pressure sensor
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.geoscience.scar.org/geodesy/perm_ob/tide/palmer.htm

Country Code	AQ
Station Name	Puerto Soberania
Latitude	-62.483
Longitude	-59.633
Operator	Servicio Hidrográfico y Oceanográfico de la Armada
Start Date	1984
End Date	2002
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/1603.php

Country Code	AQ
Station Name	Rothera
Latitude	-67.571
Longitude	-68.13
Operator	National Oceanography Centre
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	POL Tidata (original logger with Digiquartz sensors), Radar
Site of Measuring Point	The tide gauge is mounted in a sea water well, approximately 100 metres shoreward of the main jetty.
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2007
Sampling Interval	1 min
Latency	6 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=rothe&output=tab&period=0.5
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30366&version=1.0&lang=1&format=15

Country Code	AQ
Station Name	San Martin
Latitude	-68.13
Longitude	-67.1
Operator	Alfred Wegener Institute fur Polar und Meeresforschung
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Anderra CTD sensor 3231
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	20 min
Latency	
Delivery Method	
Data URL	
Document URL	http://uhslc.soest.hawaii.edu/rqds/pacific/doc/qa681c.dmt

Country Code	AQ
Station Name	Vernadsky
Latitude	-65.246
Longitude	-64.257
Operator	National Antarctic Scientific Center of Ukraine / National Oceanography Centre
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	OTT DCP tide gauge, KPSI full tide pressure sensor, KPSI mid-tide pressure sensor, POL Tidata (original logger with single Digiquartz sensor)
Site of Measuring Point	Located in tide gauge hut near to main base building.
Benchmark	TGZ = 2.750m below benchmark C (BM C).
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2659
Sampling Interval	
Latency	
Delivery Method	GOES
Data URL	
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30366&version=1.0&lang=1&format=15

Country Code	AR
Station Name	Atalaya
Latitude	-35.01528
Longitude	-57.53611
Operator	Servicio de Hidrografía Naval
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	Dock of Arroyo Atalaya, Magdalena, Province of Buenos Aires.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.hidro.gob.ar/oceanografia/mareografos.asp
Document URL	

Country Code	AR
Station Name	Buenos Aires
Latitude	-34.6
Longitude	-58.367
Operator	Servicio de Hidrografía Naval
Start Date	1905
End Date	1987
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/157.php

Country Code	AR
Station Name	Comodoro Rivadavia
Latitude	-45.867
Longitude	-67.483
Operator	Servicio de Hidrografía Naval
Start Date	1911
End Date	1980
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/181.php

Country Code	AR
Station Name	Isla Martin Garcia
Latitude	-34.183
Longitude	-58.25
Operator	Servicio de Hidrografía Naval
Start Date	1957
End Date	1976
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/864.php

Country Code	AR
Station Name	La Plata
Latitude	-34.83389
Longitude	-57.88028
Operator	Servicio de Hidrografía Naval
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	Dock of the PNA Detachment I. Monte Santiago, Interior Canal of access to Puerto La Plata. Province of Buenos Aires.
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=726
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.hidro.gob.ar/oceanografia/mareografos.asp
Document URL	

Country Code	AR
Station Name	Mar de Ajo
Latitude	-36.7
Longitude	-56.667
Operator	Servicio de Hidrografía Naval
Start Date	1981
End Date	1982
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/1542.php

Country Code	AR
Station Name	Mar del Plata (Puerto)
Latitude	-38.03556
Longitude	-57.53111
Operator	Servicio de Hidrografía Naval
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	Naval Base Mar del Plata, Mar del Plata, Province of Buenos Aires.
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2051
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.hidro.gob.ar/oceanografia/mareografos.asp
Document URL	

Country Code	AR
Station Name	Piramide
Latitude	-42.583
Longitude	-64.283
Operator	Servicio de Hidrografía Naval
Start Date	1957
End Date	1972
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/867.php

Country Code	AR
Station Name	Pto. Buenos Aires (Palermo)
Latitude	-34.56083
Longitude	-58.39889
Operator	Servicio de Hidrografía Naval
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	Pier Club de Pescadores, in front of Aeroparque J. Newbery, Buenos Aires.
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2045
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.hidro.gob.ar/oceanografia/mareografos.asp
Document URL	

Country Code	AR
Station Name	Puerto Belgrano
Latitude	-38.89583
Longitude	-62.10139
Operator	Servicio de Hidrografía Naval
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	Naval Base Puerto Belgrano, Punta Alta, Province of Buenos Aires.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.hidro.gob.ar/oceanografia/mareografos.asp
Document URL	

Country Code	AR
Station Name	Puerto Deseado
Latitude	-47.75361
Longitude	-65.91417
Operator	Servicio de Hidrografía Naval
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	Sitio 4 of Puerto Deseado, Puerto Deseado, Province of Santa Cruz.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	

Country Code	AR
Station Name	Puerto Madryn
Latitude	-42.76278
Longitude	-65.03083
Operator	Servicio de Hidrografía Naval
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	Dock Piedra Buena, Puerto Madryn, Province of Chubut.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	

Country Code	AR
Station Name	Punta Quilla
Latitude	-50.11667
Longitude	-68.41667
Operator	Servicio de Hidrografía Naval / National Oceanic and Atmospheric Administration (NOAA)
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Acoustic gauge (NGWLMS)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	

Country Code	AR
Station Name	Quequén
Latitude	-38.57528
Longitude	-58.70611
Operator	Servicio de Hidrografía Naval
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	Site 2 of the Port Quequén, Quequén, Province of Buenos Aires.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.hidro.gob.ar/oceanografia/mareografos.asp
Document URL	

Country Code	AR
Station Name	Rio Santiago
Latitude	-34.85
Longitude	-57.9
Operator	Servicio de Hidrografía Naval
Start Date	1957
End Date	1959
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/897.php

Country Code	AR
Station Name	Rosales
Latitude	-38.933
Longitude	-62.067
Operator	Servicio de Hidrografía Naval
Start Date	1957
End Date	1970
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/870.php

Country Code	AR
Station Name	San Fernando
Latitude	-34.43417
Longitude	-58.54
Operator	Servicio de Hidrografía Naval
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	Breakwater of the Argentino Yacht Club, Río Luján, intersection with Canal de Vinculación, San Fernando, Province of Buenos Aires.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.hidro.gob.ar/oceanografia/mareografos.asp
Document URL	

Country Code	AR
Station Name	Santa Teresita
Latitude	-36.54194
Longitude	-56.68611
Operator	Servicio de Hidrografía Naval
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	Fishermen's Wharf of Santa Teresita, Province of Buenos Aires.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.hidro.gob.ar/oceanografia/mareografos.asp
Document URL	

Country Code	AR
Station Name	Torre Oyarvide
Latitude	-35.10028
Longitude	-57.1275
Operator	Servicio de Hidrografía Naval
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	Between Pares 26 and 27 of the Punta Indio Channel, Río de la Plata
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.hidro.gob.ar/oceanografia/mareografos.asp
Document URL	

Country Code	AR
Station Name	Ushuaia
Latitude	-54.805
Longitude	-68.28917
Operator	Servicio de Hidrografía Naval
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	Dock Orion, Ushuaia, Province of Tierra del Fuego, Antarctica and South Atlantic Island
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	

Country Code	AW
Station Name	Oranjestad
Latitude	12.52
Longitude	-70.03
Operator	Departamento Meteorologico Aruba
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: radar, secondary sensor: pressure
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	6 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=oran&output=tab&period=0.5
Document URL	

Country Code	BB
Station Name	Barbados, Bridgetown Harbor
Latitude	13.1
Longitude	-59.6166
Operator	NOAA / National Ocean Service
Start Date	29-Oct-68
End Date	01-Feb-70
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa249a.dmt

Country Code	BB
Station Name	Barbados, Pelican Fort, Bridgetown Harbor
Latitude	13.11147
Longitude	-59.631
Operator	Government of Barbados, Coastal Zone Management Unit
Start Date	20-Feb-08
End Date	
Datum	
Time Offset	
Instrument Type	YSI 600 XLM Multimeter Pressure Gauge
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	10 min
Latency	
Delivery Method	
Data URL	
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa249d.dmt

Country Code	BM
Station Name	Bermuda, Ferry Reach Channel, Bermuda
Latitude	32.37
Longitude	-64.695
Operator	NOAA / National Ocean Service
Start Date	01-Jan-32
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=2695535
Time Offset	
Instrument Type	Pressure sensor
Site of Measuring Point	The tide gauge and staff were located in the vicinity of the Scott Laboratory building.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=2695535
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=2695535
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=2695535

Country Code	BM
Station Name	Bermuda, North Shore
Latitude	32.26
Longitude	64.84
Operator	Ministry of the Environment
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	The tide gauge is located on a peninsula surrounded by the sea.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/stations.xls

Country Code	BM
Station Name	Bermuda, St. Georges Island, Bermuda
Latitude	32.3733
Longitude	-64.7033
Operator	NOAA / National Ocean Service
Start Date	29-May-89
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=2695540
Time Offset	
Instrument Type	Microwave radar
Site of Measuring Point	The tide gauge is located midway on the ESSO pier on the east side.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=2695540
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=2695540
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=2695540

Country Code	BM
Station Name	Paget Island
Latitude	32.367
Longitude	-64.667
Operator	Lamont Geological Observatory, Columbia University
Start Date	1957
End Date	1961
Datum	
Time Offset	
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/886.php

Country Code	BR
Station Name	Abrolhos
Latitude	-17.96223
Longitude	-38.69902
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Linógrafo diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/11%20-%20Bahia/40166%20-%20Abrolhos%20(F-41)V1-05.pdf

Country Code	BR
Station Name	Ajudante
Latitude	-0.23724
Longitude	-51.38334
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/01%20-%20%20Amapa/10622%20-%20Ajudante%20(%20F-41%20)V1-07.pdf

Country Code	BR
Station Name	Alcantara
Latitude	-2.41
Longitude	-44.42172
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/03%20-%20%20Maranhao/30108%20-%20Alcantara%20(F-41)V1-11.pdf

Country Code	BR
Station Name	Antonina
Latitude	-25.44311
Longitude	-48.69363
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Diário - ESC. - 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/15%20-%20%20Parana/60110%20-%20Antonina%20(F-41)%20Padrao%20V1-16.PDF

Country Code	BR
Station Name	Areia Branca - Continente
Latitude	-4.95779
Longitude	-37.13801
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/06%20-%20Rio%20Grande%20do%20Norte/30112%20-%20Areia%20Branca%20-%20Continente%20(F-41)V2-10.pdf

Country Code	BR
Station Name	Arquipélago São Pedro e São Paulo
Latitude	0.91693
Longitude	-29.34563
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-2
Instrument Type	AANDERAA – WRL-7 pressure sensor
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/08%20-%20%20Pernambuco/10500%20-%20Arquipelago%20S.%20Pedro%20e%20S.%20Paulo%20(F-41)%20Verificada%20V1-11.pdf

Country Code	BR
Station Name	Atracadouro de Breves
Latitude	-1.69167
Longitude	-50.48333
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/10572%20-%20Atracadouro%20de%20Breves%20(F-41%20-%20Tabuas)V1%20-%202007.pdf

Country Code	BR
Station Name	Barra de Paranaguá-Canal da Galheta
Latitude	-25.56709
Longitude	-48.3161
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/15%20-%20%20Parana/60135%20-%20Barra%20de%20Paranagua%20-%20Canal%20da%20Galheta%20(F-41%20-%20Tabuas)V1-09.pdf

Country Code	BR
Station Name	Barra do Itapemirim
Latitude	-21.00678
Longitude	-40.80828
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/12%20-%20%20Espirito%20Santo/40290%20-%20Barra%20do%20Itapemirim%20(F-41)V1-11.pdf

Country Code	BR
Station Name	Base de Aratu
Latitude	-12.79461
Longitude	-38.4942
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário Esc.1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/11%20-%20Bahia/40135%20-%20Base%20Naval%20de%20Aratu%20(F-41)V1-13.pdf

Country Code	BR
Station Name	Belem
Latitude	-1.45
Longitude	-48.5
Operator	NOAA / National Ocean Service
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2999
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa229a.dmt

Country Code	BR
Station Name	CADIM (Ilha da Marambaia)
Latitude	-23.05738
Longitude	-43.98915
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Thalimedes-OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50188%20-%20Cadim%20(F-41)V1-11.pdf

Country Code	BR
Station Name	Cabo Maguari
Latitude	-0.25298
Longitude	-48.41663
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/20527%20-%20Cabo%20Maguari%20(F-41)V1-10.pdf

Country Code	BR
Station Name	Cabrália
Latitude	-16.27831
Longitude	-39.02259
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/11%20-%20Bahia/40152%20-%20Cabrália%20(F-41)%20Verificada%20V1-11.pdf

Country Code	BR
Station Name	Caiobá
Latitude	-25.85593
Longitude	-48.56888
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia – Escala 1:2
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/15%20-%20%20Parana/60105%20-%20Caioba%20(F-41)V1-08.pdf

Country Code	BR
Station Name	Cais da Escola Naval
Latitude	-22.91264
Longitude	-43.15983
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário Esc
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50135%20-%20Escola%20Naval%20(F-41)%20Padrao%20V1-13.doc

Country Code	BR
Station Name	Cais da Praticagem do Rio Grande
Latitude	-32.13881
Longitude	-52.10381
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia registro diário – Escala 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/17%20-%20%20Rio%20Grande%20do%20Sul/60380%20-%20Cais%20da%20Praticagem%20do%20Rio%20Grande%20(F-41)%20Verificada%20V1-13.pdf

Country Code	BR
Station Name	Camocim
Latitude	-2.89013
Longitude	-40.84472
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/05%20-%20%20Ceara/30320%20-%20Camocim%20(F-41)%20Padrao%20V1-11.doc

Country Code	BR
Station Name	Cananéia
Latitude	-25.01703
Longitude	-47.91865
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	26-Feb-54
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	A.OTT (historical: float and stilling well)
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=752
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/14%20-%20%20Sao%20Paulo/50250%20-%20Cananeia%20(F-41)V1-06.pdf

Country Code	BR
Station Name	Canavieira
Latitude	-15.68203
Longitude	-38.95134
Operator	DNPRC (Nacional Department Of Ports, Rivers and Channels)
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Historical: Float gauge
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/11%20-%20Bahia/40151%20-%20Canavieiras%20(F-41)%20Verificada%20V1-11.pdf

Country Code	BR
Station Name	Canivete
Latitude	0.50836
Longitude	-50.4129
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário Esc. 1: 40
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/01%20-%20%20Amapa/10526%20-%20Canivete%20(F-41)V1-09.pdf

Country Code	BR
Station Name	Cap. dos Portos de Santa Catarina
Latitude	-27.5932
Longitude	-48.56988
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia diário ESC. 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/16%20-%20Santa%20Catarina/60246%20-%20Capitania%20dos%20Portos%20de%20Santa%20Catarina%20(F-41)V1-09.pdf

Country Code	BR
Station Name	Capitania dos Portos de Salvador
Latitude	-12.97374
Longitude	-38.51722
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário - Escala 1:20 (Currently: a conventional weekly tide gauge and an IBGE radar)
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2034
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/11%20-%20Bahia/40141%20-%20Capitania%20de%20Salvador%20(F-41)V1-11.pdf

Country Code	BR
Station Name	Capitania dos Portos de Sergipe
Latitude	-10.92
Longitude	-37.04589
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia diário Escala 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/10%20-%20%20Sergipe/30825%20-%20Capitania%20dos%20Portos%20de%20Sergipe%20(F-41%20-%20Tabuas)V1-09.pdf

Country Code	BR
Station Name	Capitania dos Portos de São Paulo
Latitude	-23.95679
Longitude	-46.3081
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia diário Esc. 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/14%20-%20%20Sao%20Paulo/50228%20-%20Capitania%20dos%20Portos%20de%20Sao%20Paulo%20(F-41)V1-12.pdf

Country Code	BR
Station Name	Capitania dos Portos do Espírito Santo
Latitude	-20.3183
Longitude	-40.29727
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Thalimedes (digital float) OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/12%20-%20%20Espirito%20Santo/40252.doc

Country Code	BR
Station Name	Cepemar
Latitude	-20.32201
Longitude	-40.33593
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Digilevel
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/12%20-%20%20Espirito%20Santo/40219%20-%20CEPEMAR%20(F-41)V1-06.pdf

Country Code	BR
Station Name	Chaves
Latitude	-0.1664
Longitude	-49.98834
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Légé
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/10515%20-%20Chaves%20(F-41)V1-05.pdf

Country Code	BR
Station Name	Cia das Docas de Santana
Latitude	-0.06135
Longitude	-51.16774
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Digital – Radar (KRH 102 SDI - VAISALA) – CHM - Pressure (Squitter)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/01%20-%20%20Amapa/10615%20-%20Cia%20das%20Docas%20de%20Santana%20(F-41)V2-12.pdf

Country Code	BR
Station Name	Clube Nautico Cruzeiro do Sul
Latitude	-26.23528
Longitude	-48.63472
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Kalesto - OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/16%20-%20Santa%20Catarina/60225%20-%20Clube%20Nautico%20Cruzeiro%20do%20Sul%20(F-41)%20Padrao%20V1-13.doc

Country Code	BR
Station Name	Cocalzinho
Latitude	-1.65011
Longitude	-49.35294
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/10569%20-%20Cocalzinho%20(F-41)%20Verificada%20V1-07.pdf

Country Code	BR
Station Name	Colares (Ponta do Bacuri)
Latitude	-0.93348
Longitude	-48.29619
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Thalimedes - OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/10545%20-%20Colares%20(Ponta%20Bacuri)%20(F-41)V1-11.pdf

Country Code	BR
Station Name	Colégio Naval
Latitude	-23.01834
Longitude	-44.32759
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Légé
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50181%20-%20Colegio%20Naval%20(F-41)V1-07.pdf

Country Code	BR
Station Name	Conceição da Barra
Latitude	-18.61627
Longitude	-39.72854
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/12%20-%20%20Espirito%20Santo/40209%20-%20Conceicao%20da%20Barra%20(F-41)V1-09.pdf

Country Code	BR
Station Name	Copacabana-Salvamar
Latitude	-22.98694
Longitude	-43.19083
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50159%20-%20Copacabana-Salvamar%20(F-41)%20Padrao%20V1-08.doc

Country Code	BR
Station Name	Cosipa I
Latitude	-23.87088
Longitude	-46.37815
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Diário. Esc.: 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/14%20-%20%20Sao%20Paulo/50229%20-%20Cosipa%20I%20(F-41)V1-12.pdf

Country Code	BR
Station Name	Delegacia de Laguna
Latitude	-28.48542
Longitude	-48.78314
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Digital Thalimedes and Hidrologia Diário Esc. 1:10
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/16%20-%20Santa%20Catarina/60265%20-%20Delegacia%20de%20Laguna%20(F-41)V1-10.pdf

Country Code	BR
Station Name	Depósito de Combustíveis da Marinha
Latitude	-22.83426
Longitude	-43.18185
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Analógico - Marca Hidrologia com registro diário (analogue gauge)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50118%20-%20Deposito%20de%20Combustiveis%20da%20Marinha%20(F-41)V1-11.pdf

Country Code	BR
Station Name	EISA-Estaleiro Ilha S.A.
Latitude	-22.78802
Longitude	-43.19121
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Thalimedes-OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20Rio%20de%20Janeiro/50115%20-%20EISA%20-%20Estaleiro%20Ilha%20S.A%20(F-41)V1-12.pdf

Country Code	BR
Station Name	Escola do Igarapé Grande do Curuá
Latitude	0.7651
Longitude	-50.1187
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/01%20-%20%20Amapa/10656%20-%20Escola%20do%20Igarape%20Grande%20do%20Curua%20(F-41)V1-13.pdf

Country Code	BR
Station Name	Estaleiro BRASCO - Ponta do Caju
Latitude	-22.86667
Longitude	-43.20167
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Pressure
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20Rio%20de%20Janeiro/50103%20-%20Estaleiro%20BRASCO%20-%20Ponta%20do%20Caju%20(F-41)%20Padrao%20V1-16.pdf

Country Code	BR
Station Name	Estaleiro Inhaúma-Ponta do Caju
Latitude	-22.8675
Longitude	-43.20083
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Bóia e Contrapeso OTT Thalimedes (buoy and float?)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50101.pdf

Country Code	BR
Station Name	Estaleiro-Jurong
Latitude	-19.86694
Longitude	-40.06778
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Boia e contrapeso - Thalimedes (buoy and float?)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/12%20-%20%20Espirito%20Santo/40237.doc

Country Code	BR
Station Name	Estação das Barcas de Paquetá
Latitude	-22.76192
Longitude	-43.10693
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Linígrafo Hidrologia Diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50133%20-%20Estacao%20das%20Barcas%20de%20Paqueta%20(F-41)V1-12.pdf

Country Code	BR
Station Name	Fabrica Ecomar
Latitude	-0.84739
Longitude	-48.14011
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Leitura de Régua de Marés (Visual Tide Staff?)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/10530%20-%20Fabrica%20Ecomar%20(F-41)V1-10.pdf

Country Code	BR
Station Name	Farol Castelhanos
Latitude	-23.16838
Longitude	-44.09086
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário. Escala 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50167%20-%20Farol%20Castelhanos%20(F-41)V1-11.pdf

Country Code	BR
Station Name	Fernando de Noronha (Baía S. Antonio)
Latitude	-3.83415
Longitude	-32.40251
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-2
Instrument Type	Hidrologia Diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/08%20-%20%20Pernambuco/30955%20-%20Fernando%20de%20Noronha%20-%20Baia%20de%20Sto%20Antonio%20(F-41%20-%20Tabuas)V1-11.pdf

Country Code	BR
Station Name	Fortaleza
Latitude	-3.717
Longitude	-38.483
Operator	NOAA / National Ocean Service
Start Date	1948
End Date	1968
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3455
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/559.php

Country Code	BR
Station Name	Fundeadoiro de Salinópolis
Latitude	-0.61667
Longitude	-47.35
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/20520%20-%20Fundeadoiro%20de%20Salinopolis%20(F-41%20-%20Tabuas)%20Verificada%20V1-06.pdf

Country Code	BR
Station Name	Gradim
Latitude	-22.81833
Longitude	-43.08528
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	OTT Thalimedes N/S:281983
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50199.pdf

Country Code	BR
Station Name	Guaratuba late Clube
Latitude	-25.8736
Longitude	-48.58053
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia diário ESC. 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/15%20-%20%20Parana/60100%20-%20Guaratuba%20late%20Clube%20(F-41)V1-11.pdf

Country Code	BR
Station Name	Gurupá
Latitude	-1.40794
Longitude	-51.65094
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/10511%20-%20Gurupa%20(F-41)V1-11.pdf

Country Code	BR
Station Name	Iate Clube Boa Vista
Latitude	-26.31246
Longitude	-48.82523
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/16%20-%20Santa%20Catarina/60226%20-%20Iate%20Clube%20Boa%20Vista%20(F-41)V1-09.pdf

Country Code	BR
Station Name	Iate Clube Costa Azul
Latitude	-22.88684
Longitude	-42.00608
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário Esc. 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20Rio%20de%20Janeiro/50111%20-%20Iate%20Clube%20Costa%20Azul%20(F-41)%20Verificada%20V1-10.doc

Country Code	BR
Station Name	Iate Clube de Cabeçudas
Latitude	-26.92845
Longitude	-48.62845
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Digital Thalimedes - OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/16%20-%20Santa%20Catarina/60237%20-%20Iate%20Clube%20Cabecudas%20%20(F-41)V1-12.pdf

Country Code	BR
Station Name	Iate Clube de Ramos
Latitude	-22.83984
Longitude	-43.24746
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Thalimedes - OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50151%20-%20Iate%20Clube%20de%20Ramos%20(F-41)V1-13.pdf

Country Code	BR
Station Name	Ilha Fiscal
Latitude	-22.89669
Longitude	-43.16599
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário Esc. 1:20
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3505
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50140%20-%20Ilha%20Fiscal%20(F-41%20-%20Tabuas)V1-10.pdf

Country Code	BR
Station Name	Ilha da Moela
Latitude	-24.05105
Longitude	-46.26533
Operator	Instituto Oceanografico, Universidade de Sao Paulo
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/14%20-%20%20Sao%20Paulo/50235%20-%20Ilha%20da%20Moela%20(F-41)%20Verificada%20V1-06.pdf

Country Code	BR
Station Name	Ilha da Paz
Latitude	-26.17823
Longitude	-48.48576
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/16%20-%20Santa%20Catarina/60208%20-%20Ilha%20da%20Paz%20(F-41)V1-10.pdf

Country Code	BR
Station Name	Ilha da Rita
Latitude	-26.25183
Longitude	-48.70849
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/16%20-%20Santa%20Catarina/60221%20-%20Ilha%20da%20Rita%20(F-41)V1-10.pdf

Country Code	BR
Station Name	Ilha da Trindade
Latitude	-20.50584
Longitude	-29.30821
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-2
Instrument Type	Historical: Aanderaa WLR5 (bottom-mounted pressure gauge)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/12%20-%20%20Espirito%20Santo/40263%20-%20Ilha%20da%20Trindade%20(F-41%20-%20Tabuas)%20Verificada%20V1-12.pdf

Country Code	BR
Station Name	Ilha das Cobras
Latitude	-25.48204
Longitude	-48.43334
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	OTT Diário - ESC. – 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/15%20-%20%20Parana/60120%20-%20Ilha%20das%20Cobras%20(F-41)V1-08.pdf

Country Code	BR
Station Name	Ilha das Palmas
Latitude	-24.00819
Longitude	-46.32509
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	OTT-SE 200
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/14%20-%20%20Sao%20Paulo/50230%20-%20Ilha%20das%20Palmas%20(F-41)%20Padrao%20V2-12.doc

Country Code	BR
Station Name	Ilha de Itaparica
Latitude	-12.87975
Longitude	-38.686
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	OTT. Escala 1:15.
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/11%20-%20Bahia/40133%20-%20Ilha%20de%20Itaparica%20(F-41)V1-10.pdf

Country Code	BR
Station Name	Ilha de Jaguanum
Latitude	-22.98556
Longitude	-43.93167
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Thalimedes-OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50184%20-%20Ilha%20de%20Jaguanum%20(F-41)%20Padrao%20V3-16.pdf

Country Code	BR
Station Name	Ilha de Paquetá
Latitude	-22.75875
Longitude	-43.10976
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Linígrafo Hidrologia
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20Rio%20de%20Janeiro/50124%20-%20Ilha%20de%20Paqueta%20(F-41)%20Verificada%20V1-09.pdf

Country Code	BR
Station Name	Ilha do Bernardo
Latitude	-23.02353
Longitude	-43.95244
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Thalimedes-OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20Rio%20de%20Janeiro/50185%20-%20Ilha%20do%20Bernardo%20(F-41)V1-11.pdf

Country Code	BR
Station Name	Ilha do Boqueirão I
Latitude	-22.77861
Longitude	-43.15784
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Thalimedes (digital float) OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20Rio%20de%20Janeiro/50127%20-%20Ilha%20do%20Boqueirao%20I%20(F-41)V1-09.pdf

Country Code	BR
Station Name	Ilha do Machadinho
Latitude	-0.17275
Longitude	-48.77179
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/20524%20-%20Ilha%20do%20Machadinho%20(F-41)V1-07.pdf

Country Code	BR
Station Name	Ilha do Mosqueiro
Latitude	-1.1654
Longitude	-48.47411
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Thalimedes – OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/10525%20-%20Ilha%20do%20Mosqueiro%20(F-41%20-%20Tabuas)%20Padrao%20V2-13.doc

Country Code	BR
Station Name	Ilha dos Guarás III
Latitude	-0.60081
Longitude	-43.91547
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Thalimedes - OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/20535.doc

Country Code	BR
Station Name	Joinville Iate Clube
Latitude	-26.29167
Longitude	-48.77333
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/16%20-%20Santa%20Catarina/60222%20-%20Joinville%20Iate%20Clube%20(F-41)V2-10.pdf

Country Code	BR
Station Name	Maragojipe
Latitude	-12.78167
Longitude	-38.90667
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia diário Escala 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/11%20-%20Bahia/40129%20-%20Maragojipe%20(F-41)V1-08.pdf

Country Code	BR
Station Name	Morro de São Paulo
Latitude	-13.375
Longitude	-38.915
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Légé
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/11%20-%20Bahia/40139%20-%20Morro%20de%20Sao%20Paulo%20(F-41)V1-07.pdf

Country Code	BR
Station Name	Nova Del. da Cap. dos Portos de Itajaí
Latitude	-26.90694
Longitude	-48.64924
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Kalesto – OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/16%20-%20Santa%20Catarina/60235%20-%20Nova%20Del.%20da%20Cap.%20dos%20Portos%20em%20Itajai%20(F-41)V1-12.pdf

Country Code	BR
Station Name	Ogiva late Clube
Latitude	-22.86778
Longitude	-42.00111
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Bóia e Contrapeso OTT Thalimedes (buoy and float?)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50102%20-%20Ogiva%20late%20Clube%20(F-41)%20Padrao%20V1-16.pdf

Country Code	BR
Station Name	Paracuru I
Latitude	-3.39724
Longitude	-39.01659
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Visual Tide Staff?
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/05%20-%20%20Ceara/30330%20-%20Paracuru%20I%20(F-41)V1-07.pdf

Country Code	BR
Station Name	Parati
Latitude	-23.22184
Longitude	-44.70821
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Légé
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50193%20-%20Parati%20(F-41)V1-09.pdf

Country Code	BR
Station Name	Penha
Latitude	-26.77
Longitude	-48.65167
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/16%20-%20Santa%20Catarina/60224%20-%20Penha%20(F-41)V1-06.pdf

Country Code	BR
Station Name	Perizes II
Latitude	-2.94333
Longitude	-44.42667
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Pressure (PCD Hidrológica Flex (Hidromec))
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/03%20-%20%20Maranhao/30155%20-%20Perizes%20II%20(F-41)V1-12.pdf

Country Code	BR
Station Name	Piaçabuçu
Latitude	-10.40333
Longitude	-36.435
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/09%20-%20%20Alagoas/30762%20-%20Piacabucu%20(F-41)%20Verificada%20V1-07.pdf

Country Code	BR
Station Name	Ponta Negra
Latitude	-1.62628
Longitude	-49.22327
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Visual Tide Staff?
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/10580%20-%20Ponta%20Negra%20(F-41)V1-07.pdf

Country Code	BR
Station Name	Ponta da Armação
Latitude	-22.88321
Longitude	-43.13478
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário Esc. 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50141%20-%20Ponta%20da%20Armacao%20(F-41)V1-10.pdf

Country Code	BR
Station Name	Ponta de Meaípe
Latitude	-20.7418
Longitude	-40.53679
Operator	ENCAL
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia. Escala 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/12%20-%20%20Espirito%20Santo/40235%20-%20Ponta%20de%20Meaípe%20(F-41)%20Verificada%20V1-06.pdf

Country Code	BR
Station Name	Porto Alegre
Latitude	-30.07
Longitude	-51.12
Operator	Laboratoire d'Etudes en Geophysique et Oceanographie Spatiale
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.sonel.org/spip.php?page=maregrappe&idStation=3473

Country Code	BR
Station Name	Porto Madre de Deus
Latitude	-12.74978
Longitude	-38.6237
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/11%20-%20Bahia/40118%20-%20Porto%20de%20Madre%20de%20Deus%20(F-41%20-%20Tabuas)%20Verificada%20V1-09.pdf

Country Code	BR
Station Name	Porto Seguro
Latitude	-16.45379
Longitude	-39.06744
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/11%20-%20Bahia/40154%20-%20Porto%20Seguro%20(F-41)V1-08.pdf

Country Code	BR
Station Name	Porto de Açu
Latitude	-21.81201
Longitude	-41.00754
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Sensor de Pressão WL-15 da Global Water (pressure)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50107%20-%20Terminal%20Maritimo%20do%20Porto%20de%20Açu%20(F-41)V1-10.pdf

Country Code	BR
Station Name	Porto de Açu - Darsena 02
Latitude	-21.85056
Longitude	-41.00111
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	SDX O-35 FT (pressure transducer?)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50157%20-%20Porto%20de%20Acu%20-%20T2%20-%20Darsena%2002.pdf

Country Code	BR
Station Name	Porto de Açu - Darsena 04
Latitude	-22.86806
Longitude	-41.00167
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	SDX O-35 FT (pressure transducer?)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50155%20-%20Porto%20do%20Aco%20-%20T2%20-%20Darsena%2004.pdf

Country Code	BR
Station Name	Porto de Belém
Latitude	-1.43629
Longitude	-48.49394
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/10520%20-%20Porto%20de%20Belem%20(F-41%20-%20Tabuas)%20Verificada%20V1-13.pdf

Country Code	BR
Station Name	Porto de Cabedelo
Latitude	-6.97027
Longitude	-34.84066
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário Esc. 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/07%20-%20%20Paraiba/30540%20-%20%20Porto%20de%20Cabedelo%20(F-41%20-%20Tabuas)%20Verificada%20V1-09.pdf

Country Code	BR
Station Name	Porto de Florianópolis
Latitude	-27.58801
Longitude	-48.55705
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	RICHARD
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/16%20-%20Santa%20Catarina/60245%20-%20Porto%20de%20Florianopolis%20(F-41%20-%20Tabuas)%20Verificada%20V1-08.pdf

Country Code	BR
Station Name	Porto de Guamaré
Latitude	-5.10624
Longitude	-36.31722
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/06%20-%20%20Rio%20Grande%20do%20Norte/30443%20-%20Porto%20de%20Guamare%20(F-41%20-%20Tabuas)V1-08.pdf

Country Code	BR
Station Name	Porto de Ilhéus
Latitude	-14.78036
Longitude	-39.02684
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diária
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/11%20-%20Bahia/40145%20-%20Porto%20de%20Ilheus%20(F-41%20-%20Tabuas)V1-09.pdf

Country Code	BR
Station Name	Porto de Imbituba
Latitude	-28.23103
Longitude	-48.65042
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2043
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/16%20-%20Santa%20Catarina/60250%20-%20Porto%20de%20Imbituba%20(F-41%20-%20Tabuas)%20Verificada%20V1-09.pdf

Country Code	BR
Station Name	Porto de Itaguaí
Latitude	-22.93207
Longitude	-43.84229
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Linígrafo diário escala 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50145%20-%20Porto%20de%20Itaguaí%20(F-41%20-%20Tabuas)V1-10.pdf

Country Code	BR
Station Name	Porto de Itaqui
Latitude	-2.57547
Longitude	-44.36981
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/03%20-%20%20Maranhao/30110%20-%20Porto%20de%20Itaqui%20(F-41%20-%20Tabuas)V1-10.pdf

Country Code	BR
Station Name	Porto de Laguna
Latitude	-28.49742
Longitude	-48.77128
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/16%20-%20Santa%20Catarina/60264%20-%20Porto%20de%20Laguna%20(F-41)%20Verificada%20V1-10.pdf

Country Code	BR
Station Name	Porto de Luís Correia
Latitude	-2.85279
Longitude	-41.64352
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/04%20-%20%20Piaui/30225%20-%20Porto%20de%20Luis%20Correia%20(F-41%20-%20Tabuas)%20Verificada%20V1-11.pdf

Country Code	BR
Station Name	Porto de Macapá
Latitude	0.0344
Longitude	-51.04467
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/01%20-%20%20Amapa/10660%20-%20Porto%20de%20Macapa%20(F-41)%20Verificada%20V1-09.pdf

Country Code	BR
Station Name	Porto de Macau
Latitude	-5.10054
Longitude	-36.67383
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário Esc. 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/06%20-%20Rio%20Grande%20do%20Norte/30445%20-%20Porto%20de%20Macau%20(F-41%20-%20Tabuas)V1-11.pdf

Country Code	BR
Station Name	Porto de Maceió
Latitude	-9.68318
Longitude	-35.72512
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidromec Diário - Esc. 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/09%20-%20%20Alagoas/30725-Porto%20de%20Maceio%20(F-41-Tabuas)V1-12.pdf

Country Code	BR
Station Name	Porto de Mucuripe
Latitude	-3.71524
Longitude	-38.4774
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/05%20-%20%20Ceara/30340%20-%20Porto%20de%20Mucuripe%20(F-41%20-%20Tabuas)V2-13.pdf

Country Code	BR
Station Name	Porto de Paranaguá-Cais Oeste
Latitude	-25.50212
Longitude	-48.52595
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário: Esc. 1: 20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/15%20-%20%20Parana/60132%20-%20Porto%20de%20Paranagua%20-%20Cais%20Oeste%20(F-41%20-%20Tabuas)V1-11.pdf

Country Code	BR
Station Name	Porto de Salvador
Latitude	-12.96543
Longitude	-38.51599
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/11%20-%20Bahia/40140%20-%20Porto%20de%20Salvador%20(F-41%20-%20Tabuas)%20Verificada%20V1-11.pdf

Country Code	BR
Station Name	Porto de Santana
Latitude	-0.05699
Longitude	-51.18075
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2997
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/01%20-%20%20Amapa/10620%20-%20Porto%20de%20Santana%20-%20ICOMI%20(F-41%20-%20Tabuas)%20Verificada%20V1-09.pdf

Country Code	BR
Station Name	Porto de Santos - Torre Grande
Latitude	-23.95241
Longitude	-46.30478
Operator	DNPRC (Nacional Department Of Ports, Rivers and Channels)
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Casella no. 7810
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/14%20-%20%20Sao%20Paulo/50225%20-%20Porto%20de%20Santos%20-%20Torre%20Grande%20(F-41%20-%20Tabuas%20)%20Verificada%20V1-08.pdf

Country Code	BR
Station Name	Porto de Suape
Latitude	-8.39892
Longitude	-34.95971
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Linígrafo bimensal (Visual Tide Staff?)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/08%20-%20%20Pernambuco/30685%20-%20Porto%20de%20Suape%20(F-41%20-%20Tabuas)V1-10.pdf

Country Code	BR
Station Name	Porto de São Sebastião
Latitude	-23.81081
Longitude	-45.39824
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Escala 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/14%20-%20%20Sao%20Paulo/50229%20-%20Cosipa%20I%20(F-41)V1-12.pdf

Country Code	BR
Station Name	Porto de Tubarão
Latitude	-20.28877
Longitude	-40.24369
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	OTT radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/12%20-%20%20Espirito%20Santo/40255%20-%20Porto%20de%20Tubarao%20(F-41%20-%20Tabuas)V2-08.pdf

Country Code	BR
Station Name	Porto de Vila do Conde
Latitude	-1.53914
Longitude	-48.75328
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Kalesto - OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/10566%20-%20%20Porto%20de%20Vila%20do%20Conde%20(F-41%20-%20Tabuas)V1-13.pdf

Country Code	BR
Station Name	Porto do Forno
Latitude	-22.97266
Longitude	-42.01388
Operator	Instituto de Estudos do Mar Almirante
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Digilevel
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20Rio%20de%20Janeiro/50156%20-%20Porto%20do%20Forno%20(F-41)-%20Tabuas%20-%20V1-08.pdf

Country Code	BR
Station Name	Porto do Recife
Latitude	-8.05678
Longitude	-34.86648
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário Esc. 1:20
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2656
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/08%20-%20%20Pernambuco/30645%20-%20Porto%20do%20Recife%20(F-41%20-%20Tabuas)V1-10.pdf

Country Code	BR
Station Name	Poxim
Latitude	-10.94499
Longitude	-37.05035
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/10%20-%20%20Sergipe/30821%20-%20Poxim%20(F-41)%20Verificada%20V1-09.pdf

Country Code	BR
Station Name	Recreio dos Bandeirantes
Latitude	-23.03515
Longitude	-43.47183
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20Rio%20de%20Janeiro/50174%20-%20Recreio%20dos%20Bandeirantes%20(F-41)%20Verificada%20V1-06.pdf

Country Code	BR
Station Name	Redinha
Latitude	-5.75038
Longitude	-35.19776
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Visual Tide Staff
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/06%20-%20%20Rio%20Grande%20do%20Norte/30459%20-%20Redinha%20(F-41)%20Verificada%20V1-10.pdf

Country Code	BR
Station Name	Rio de Janeiro
Latitude	-22.933
Longitude	-43.133
Operator	NOAA / National Ocean Service
Start Date	1949
End Date	1968
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	http://www.psmsl.org/data/obtaining/rlr.diagrams/579.php
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/579.php

Country Code	BR
Station Name	SSN-41
Latitude	-0.06146
Longitude	-51.16011
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Linígrafo diário com escala de 1:40
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/01%20-%20%20Amapa/10610%20-%20SSN-41%20(F-41)V1-11.pdf

Country Code	BR
Station Name	Soure
Latitude	-0.73512
Longitude	-48.51807
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Thalimedes-OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/10528%20-%20Soure%20%20(F-41)V1-13.pdf

Country Code	BR
Station Name	São Luiz do Tajapuru
Latitude	-1.68003
Longitude	-50.59293
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Visual Tide Staff?
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/10576%20-%20Sao%20Luis%20do%20Tajapuru%20l%20(F-41)V1-%2008.pdf

Country Code	BR
Station Name	São Roque
Latitude	-12.8529
Longitude	-38.84192
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Leitura de régua (Visual Tide Staff?)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/11%20-%20Bahia/40130%20-%20Sao%20Roque%20(F-41)V1-08.pdf

Country Code	BR
Station Name	Teporti
Latitude	-26.87625
Longitude	-48.71075
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Digital Thalimedes-OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/16%20-%20Santa%20Catarina/60238%20-%20TEPORTI%20%20(F-41)V1-12.pdf

Country Code	BR
Station Name	Terminal Marítimo Inácio Barbosa
Latitude	-10.83376
Longitude	-36.93001
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Linígrafo – Hidrologia
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/10%20-%20%20Sergipe/30810%20-%20Terminal%20Maritimo%20Inacio%20Barbosa%20(F-41%20-%20Tabuas)%20Verificada%20V1-09.pdf

Country Code	BR
Station Name	Terminal Portuário da Ponta do Félix
Latitude	-25.45502
Longitude	-48.67906
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário Esc. 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/15%20-%20%20Parana/60139%20-%20Terminal%20Portuario%20da%20Ponta%20do%20Felix%20(F-41%20-%20Tabuas)V1-09.pdf

Country Code	BR
Station Name	Terminal Portuário de Pecém
Latitude	-3.53569
Longitude	-38.79785
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Marégrafo de Hidrologia Mensal (monthly charts?)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/05%20-%20%20Ceara/30337%20-%20Terminal%20Portuario%20do%20Pecem%20(F-41%20-%20Tabuas)V1-09.pdf

Country Code	BR
Station Name	Terminal Salinor
Latitude	-5.10083
Longitude	-36.6525
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Marégrafo digital de bola OTT Thalimedes
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/06%20-%20%20Rio%20Grande%20do%20Norte/30436%20-%20Terminal%20Salinor%20(F-41)%20Padrao%20V1-16.pdf

Country Code	BR
Station Name	Terminal Trocadeiros
Latitude	-26.88833
Longitude	-48.68333
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Pressure
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/16%20-%20Santa%20Catarina/60239%20-%20Terminal%20Trocadeiros%20(F-41)V1-16.pdf

Country Code	BR
Station Name	Terminal da Barra do Riacho
Latitude	-19.83877
Longitude	-40.05972
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário Esc. 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/12%20-%20%20Espirito%20Santo/40240.doc

Country Code	BR
Station Name	Terminal da Ilha Guaíba
Latitude	-22.99979
Longitude	-44.03163
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia diário escala 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20%20Rio%20de%20Janeiro/50165%20-%20Terminal%20da%20Ilha%20Guaiba%20(F-41%20-%20Tabuas)V1-11.pdf

Country Code	BR
Station Name	Terminal da Ponta da Madeira
Latitude	-2.56529
Longitude	-44.37804
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia mensal
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3276
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/03%20-%20%20Maranhao/30149%20-%20Terminal%20da%20Ponta%20da%20Madeira%20(F-41%20-%20Tabuas)%20Verificada%20V1-13.pdf

Country Code	BR
Station Name	Terminal da Ponta do Ubu
Latitude	-20.78782
Longitude	-40.57039
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário Esc. 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/12%20-%20%20Espirito%20Santo/40280%20-%20Terminal%20da%20Ponta%20do%20Ubu%20(F-41%20-%20Tabuas)V1-10.pdf

Country Code	BR
Station Name	Terminal de Alumar
Latitude	-2.67779
Longitude	-44.36242
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/03%20-%20%20Maranhao/30114%20-%20Terminal%20da%20Alumar%20(F-41%20-%20Tabuas)V1-10.pdf

Country Code	BR
Station Name	Terminal de Imbetiba
Latitude	-22.3823
Longitude	-41.76666
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia Diário Esc. 1:20
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/13%20-%20Rio%20de%20Janeiro/50116%20-%20Terminal%20de%20Imbetiba%20(F-41%20-%20Tabuas)V1-10.pdf

Country Code	BR
Station Name	Tramadaí
Latitude	-29.96667
Longitude	-50.11667
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Légé
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/17%20-%20%20Rio%20Grande%20do%20Sul/60320%20-%20Tramandai%20(F-41)V1-07.pdf

Country Code	BR
Station Name	Trapiche da CPRN
Latitude	-5.77866
Longitude	-35.20746
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	HIDROMEC Analógico Diário
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/06%20-%20Rio%20Grande%20do%20Norte/30461%20-%20Trapiche%20da%20CPRN%20(F-41%20-%20Tabuas)V1-10.pdf

Country Code	BR
Station Name	UFPA
Latitude	-1.47738
Longitude	-48.45371
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Thalimedes - OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/10531%20-%20UFPA%20(F-41)%20Verificada%20V1-13.pdf

Country Code	BR
Station Name	Ubatuba
Latitude	-23.45232
Longitude	-45.04709
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Hidrologia diário
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2039
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/acesso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/14%20-%20%20Sao%20Paulo/50205%20-%20Ubatuba%20(F-41)V1-11.pdf

Country Code	BR
Station Name	Val de Cães
Latitude	-1.39592
Longitude	-48.49258
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Thalimedes
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/10519%20-%20Val%20de%20Caes%20(F-41)%20Verificada%20V1-13.pdf

Country Code	BR
Station Name	Vila Nazaré
Latitude	-0.1569
Longitude	-49.14973
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/02%20-%20%20Para/10521%20-%20Vila%20Nazare%20(F-41)V1-11.pdf

Country Code	BR
Station Name	Vila São José do Pirarucu
Latitude	-0.24667
Longitude	-50.82833
Operator	Diretoria de Hidrografia e Navegação Marinha do Brasil
Start Date	
End Date	
Datum	
Time Offset	UTC-3
Instrument Type	Leitura de Régua de Marés (Visual Tide Staff?)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mar.mil.br/dhn/chm/oceanografia/aceso_dados_produtos.html
Document URL	http://www.mar.mil.br/dhn/chm/box-estacoes-maregraficas/F41/PDF/01%20-%20%20Amapa/10540%20-%20Vila%20Sao%20Jose%20do%20Pirarucu%20(F-41)V1-10.pdf

Country Code	BR
Station Name	Vitória
Latitude	-20.31
Longitude	-40.32
Operator	Unknown
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	

Country Code	BS
Station Name	Great Inagua
Latitude	21.0519
Longitude	73.6464
Operator	CPACC/MACC
Start Date	27-May-98
End Date	
Datum	
Time Offset	
Instrument Type	Acoustic
Site of Measuring Point	The station was originally located on a pier but had to be moved due to storm damage. It was moved over to another dock and seemed to be working well now, however there have been other issues (see comments). It is in a secure fenced in area and out of the way of marine operations on the NE side about 500' from where it was originally.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	GOES
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/stations.xls

Country Code	BS
Station Name	Lee Stocking Island
Latitude	23.77333
Longitude	-76.10556
Operator	CPACC/MACC
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Acoustic
Site of Measuring Point	The station is located on a original site that was previously used for float gauge. It is sitting on a platform, maybe 50' offshore.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	GOES
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/stations.xls

Country Code	BS
Station Name	Nassau
Latitude	25.0861
Longitude	77.3683
Operator	CPACC/MACC
Start Date	21-Apr-98
End Date	
Datum	
Time Offset	
Instrument Type	Acoustic
Site of Measuring Point	The station is located in the downtown area on a dock off the corner of a pier. The DCP is on the same side as the Police Marine station and has been in the way of docking marine traffic.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	GOES
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/stations.xls

Country Code	BS
Station Name	Settlement Point
Latitude	26.71
Longitude	-78.997
Operator	NOAA / National Ocean Service (1985-2001), University of Hawaii Sea Level Center (UHSLC) (2002-)
Start Date	18-Oct-85
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9710441
Time Offset	
Instrument Type	Analog-to-digital float (1985-1992), Aquatrak acoustic gauge (NGWLMS) (1993-2001), Waterlog Pressure sensor (2001-2002), Aquatrak acoustic gauge ECS (2002-2012), Primary sensor: Radar (Vega Vegapuls 62) (2005-), pressure transducer (2005-), Secondary sensor: Radar (2011-)
Site of Measuring Point	
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=9710441
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa257b.dmt

Country Code	BZ
Station Name	Belize City
Latitude	17.47083
Longitude	-88.20222
Operator	CPACC/MACC
Start Date	03-Apr-98
End Date	
Datum	
Time Offset	
Instrument Type	Acoustic
Site of Measuring Point	Monitoring Station is located on the northwest corner of the Belize Deep Water Port Pier.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	GOES
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/stations.xls

Country Code	BZ
Station Name	Carrie Bow Cay
Latitude	16.8
Longitude	-88.08
Operator	Smithsonian Marine Station at Fort Pierce
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: radar, secondary sensor: pressure
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=cabc&output=tab&period=0.5
Document URL	

Country Code	CG
Station Name	Pointe Noire
Latitude	-4.783
Longitude	11.833
Operator	Port Autonome de Pointe Noire
Start Date	
End Date	
Datum	
Time Offset	0
Instrument Type	Primary Channel:OTT Kalesto Radar Sensor, Secondary Channel:OTT ODS4-K Pressure Sensor
Site of Measuring Point	Pointe Noire harbour at the west end of the jetty, close to the green light tower at the harbour entrance
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.gloss-sealevel.org/data/africa_and_west_indian_ocean
Document URL	http://www.gloss-sealevel.org/data/africa_and_west_indian_ocean/documents/pointenoire.pdf

Country Code	CI
Station Name	Abidjan
Latitude	5.25
Longitude	-4
Operator	Port Autonome d'Abidjan
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	A OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	60 min
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/cotedivoire_gexii2011.pdf

Country Code	CI
Station Name	San Pedro
Latitude	4.06667
Longitude	-6.11028
Operator	Port Autonome d'Abidjan
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	A OTT
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/cotedivoire_gexii2011.pdf

Country Code	CL
Station Name	Caleta Percy
Latitude	-52.9
Longitude	-70.267
Operator	Servicio Hidrográfico y Oceanográfico de la Armada
Start Date	1961
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/994.php

Country Code	CL
Station Name	Diego Ramirez
Latitude	-56.5
Longitude	-68.717
Operator	Servicio Hidrográfico y Oceanográfico de la Armada
Start Date	1991
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/1785.php

Country Code	CL
Station Name	Gregorio
Latitude	-52.65
Longitude	-70.21
Operator	Servicio Hidrográfico y Oceanográfico de la Armada
Start Date	2014
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: pressure, secondary sensor: radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	6 min
Delivery Method	GOES, GPRS, GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=greg&output=tab&period=0.5
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30071&version=1.0&lang=1&format=1

Country Code	CL
Station Name	Puerto Williams
Latitude	-54.917
Longitude	-67.617
Operator	Servicio Hidrográfico y Oceanográfico de la Armada
Start Date	1999
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: pressure, secondary sensor: radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	7 min
Delivery Method	GOES, GPRS, GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=pwil&output=tab&period=0.5
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30071&version=1.0&lang=1&format=1

Country Code	CL
Station Name	Punta Arenas
Latitude	-53.167
Longitude	-70.9
Operator	Servicio Hidrográfico y Oceanográfico de la Armada
Start Date	2001
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: pressure, secondary sensor: radar
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=810
Sampling Interval	1 min
Latency	8 min
Delivery Method	GOES, GPRS, GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=ptar&output=tab&period=0.5
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30071&version=1.0&lang=1&format=1

Country Code	CM
Station Name	Douala Port
Latitude	4.05
Longitude	9.68333
Operator	Autonomous Port of Douala
Start Date	1981
End Date	2006
Datum	
Time Offset	
Instrument Type	OTT R 20 float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	https://www.gloss-sealevel.org/publications/documents/cameroon_2006.pdf

Country Code	CM
Station Name	Port Sonara
Latitude	4.00579
Longitude	9.12592
Operator	Société National de Raffinage
Start Date	20-Jun-08
End Date	30-Apr-10
Datum	Estimated Chart Datum = 4.2m below top of Foundation (pile 21)
Time Offset	
Instrument Type	Primary channel: OTT Kalesto Radar Sensor, Secondary Channels: 2 x OTT ODS4-K Pressure Sensors
Site of Measuring Point	The tide gauge is located in the Sonara company harbour, close to Port Lime, on a foundation ("Vérole 21") of the Poste des Caboteurs pier at AP1, Wharf 1.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.gloss-sealevel.org/data/africa_and_west_indian_ocean
Document URL	http://www.gloss-sealevel.org/data/africa_and_west_indian_ocean/documents/portsonara.pdf

Country Code	CO
Station Name	Capurganá
Latitude	8.51622
Longitude	-77.32825
Operator	Institute of Hydrology, Meteorology and Environmental Studies (IDEAM)
Start Date	1995
End Date	
Datum	
Time Offset	
Instrument Type	Optical sensor
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/colombia_gexi2009.pdf

Country Code	CO
Station Name	Cartagena
Latitude	10.4
Longitude	-75.55
Operator	Institute of Hydrology, Meteorology and Environmental Studies (IDEAM)
Start Date	1995
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/colombia_gexi2009.pdf

Country Code	CO
Station Name	Coveñas
Latitude	9.41
Longitude	-76.21
Operator	Dirección General Marítima
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: bubbler, secondary sensor: radar, tertiary sensor: pressure
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	
Delivery Method	FTP, GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=cove&output=tab&period=0.5
Document URL	

Country Code	CO
Station Name	Isla Naval
Latitude	10.18
Longitude	-75.75
Operator	Dirección General Marítima
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: bubbler, secondary sensor: pressure, tertiary sensor: radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	7 min
Delivery Method	FTP, GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=inav&output=tab&period=0.5
Document URL	

Country Code	CO
Station Name	Islas Del Rosario
Latitude	10.18342
Longitude	-75.66671
Operator	Institute of Hydrology, Meteorology and Environmental Studies (IDEAM)
Start Date	1989
End Date	
Datum	
Time Offset	
Instrument Type	Optical sensor
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/colombia_gexi2009.pdf

Country Code	CO
Station Name	Puerto Estrella
Latitude	12.36
Longitude	-71.31
Operator	Dirección General Marítima
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: radar, secondary sensor: pressure
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	
Delivery Method	FTP
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=estr&output=tab&period=0.5
Document URL	

Country Code	CO
Station Name	Riohacha
Latitude	11.55
Longitude	-72.917
Operator	Instituto Geografico 'Agostin Codazzi'
Start Date	1953
End Date	1976
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/714.php

Country Code	CO
Station Name	San Andres
Latitude	12.583
Longitude	-81.7
Operator	Institute of Hydrology, Meteorology and Environmental Studies (IDEAM)
Start Date	01-Jan-97
End Date	
Datum	
Time Offset	
Instrument Type	Leupold Stevens punch gauge with float/well (1997-), radar (Vega Vegapuls 62) (2012-), pressure transducer (2012-), Bubbler (2012-)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	2 min
Latency	
Delivery Method	
Data URL	
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa737a.dmt

Country Code	CO
Station Name	Santa Marta
Latitude	11.24
Longitude	-74.22
Operator	Dirección General Marítima
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: pressure, secondary sensor: radar, tertiary sensor: bubbler
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3071
Sampling Interval	1 min
Latency	7 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=sama&output=tab&period=0.5
Document URL	

Country Code	CO
Station Name	Sapzurro
Latitude	8.66
Longitude	-77.37
Operator	Dirección General Marítima
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: radar, secondary sensor: bubbler, tertiary sensor: pressure
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	6 min
Delivery Method	FTP, GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=sapz2&output=tab&period=0.5
Document URL	

Country Code	CR
Station Name	Puerto Limon
Latitude	10
Longitude	-83.033
Operator	SERMAR, Instituto Meteorologico Nacional/University of Hawaii Sea Level Center (UHSLC)
Start Date	1970
End Date	
Datum	
Time Offset	
Instrument Type	Float (1970-1981), Radar (Vega Vegapuls 62), pressure transducer, Handar 436A encoder (2009-)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	60 min
Latency	
Delivery Method	
Data URL	
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa268a.dmt

Country Code	CU
Station Name	Cabo Cruz
Latitude	19.833
Longitude	-77.733
Operator	Cuban National Tidal Service
Start Date	1992
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	60 min
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/1910.php

Country Code	CU
Station Name	Cabo De San Antonio
Latitude	21.9
Longitude	-84.9
Operator	Cuban National Tidal Service
Start Date	1971
End Date	
Datum	
Time Offset	
Instrument Type	Float (1972-), Radar (2013-)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/1297.php

Country Code	CU
Station Name	Casilda
Latitude	21.753
Longitude	-79.992
Operator	Cuban National Tidal Service
Start Date	1979
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/reportmarcelinohernandez_2003.pdf

Country Code	CU
Station Name	Cayo Loco
Latitude	22.151
Longitude	-80.455
Operator	Cuban National Tidal Service
Start Date	1992
End Date	
Datum	
Time Offset	
Instrument Type	Float (1992-), Radar (2013-)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/2289.php

Country Code	CU
Station Name	Gibara
Latitude	21.108
Longitude	-76.125
Operator	Instituto Cubano De Hidrografia, Seccion de Mareas
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa244a.dmt

Country Code	CU
Station Name	Guantanamo Bay
Latitude	19.907
Longitude	-75.147
Operator	NOAA / National Ocean Service
Start Date	02-Jun-37
End Date	01-Feb-98
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9731158
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9731158

Country Code	CU
Station Name	Isabela De Sagua
Latitude	22.933
Longitude	-80.017
Operator	Cuban National Tidal Service
Start Date	1972
End Date	
Datum	
Time Offset	
Instrument Type	Float (1972-), Radar (2013-)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/1909.php

Country Code	CU
Station Name	La Coloma
Latitude	22.23667
Longitude	-83.57167
Operator	Negociado de Hidrografia
Start Date	1949
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/594.php

Country Code	CU
Station Name	Los Morros
Latitude	21.9
Longitude	-84.90667
Operator	Cuban National Tidal Service
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/reportmarcelinohernandez_2003.pdf

Country Code	CU
Station Name	Maisi
Latitude	20.24667
Longitude	-74.145
Operator	Cuban National Tidal Service
Start Date	2000
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/1912.php

Country Code	CU
Station Name	Manzanillo
Latitude	20.333
Longitude	-77.15
Operator	Cuban National Tidal Service
Start Date	2004
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	60 min
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/1934.php

Country Code	CU
Station Name	Mariel Boca
Latitude	23.021
Longitude	-82.756
Operator	Cuban National Tidal Service
Start Date	1999
End Date	
Datum	
Time Offset	
Instrument Type	Float (1999-), Pressure (2013-)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/2286.php

Country Code	CU
Station Name	Nuevitas Punta Practico
Latitude	21.591
Longitude	-77.11
Operator	Cuban National Tidal Service
Start Date	1992
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/2288.php

Country Code	CU
Station Name	Santa Cruz del Sur
Latitude	20.7
Longitude	-77.97667
Operator	Cuban National Tidal Service
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	

Country Code	CU
Station Name	Santiago de Cuba
Latitude	20.01
Longitude	-75.76
Operator	Cuban National Tidal Service
Start Date	2012
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	60 min
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/2287.php

Country Code	CU
Station Name	Siboney
Latitude	23.09167
Longitude	-82.47167
Operator	Instituto Cubano De Hidrografia, Seccion de Mareas
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa239a.dmt

Country Code	CV
Station Name	Mindelo
Latitude	16.89
Longitude	-25
Operator	Instituto Nacional de Meteorologia e Geofisica de Cabo Verde
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	MIROS radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	5 min
Latency	
Delivery Method	FTP
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=mind&output=tab&period=0.5
Document URL	

Country Code	CV
Station Name	Palmeira
Latitude	16.75
Longitude	-22.983
Operator	Instituto Nacional de Meteorologia e Geofisica de Cabo Verde / University of Hawaii Sea Level Center (UHSLC)
Start Date	12-Mar-00
End Date	
Datum	
Time Offset	
Instrument Type	Aquatrak acoustic gauge, Sutron 9000 DCP (2000-2007), Primary:pressure (2007-), secondary: radar (Vega Vegapuls 62) (2007-), tertiary: bubbler (2007-)
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3597
Sampling Interval	1 min
Latency	7 min
Delivery Method	FTP
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=palm1&output=tab&period=0.5
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa235a.dmt

Country Code	CV
Station Name	Porto Grande (St. Vincent)
Latitude	16.883
Longitude	-25
Operator	Instituto Hidrografico de Marinha
Start Date	10-Jul-90
End Date	31-Dec-93
Datum	
Time Offset	
Instrument Type	OTT R20T float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	60 min
Latency	
Delivery Method	
Data URL	
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa216a.dmt

Country Code	CV
Station Name	Praia
Latitude	14.91228
Longitude	-23.50214
Operator	Instituto Nacional de Meteorologia e Geofisica de Cabo Verde
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Pressure (1984-1985), Acoustic (1995-1996), Radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	5 min
Latency	
Delivery Method	FTP
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=prai&output=tab&period=0.5
Document URL	

Country Code	CW
Station Name	Bullen Bay
Latitude	12.19
Longitude	-69.02
Operator	Meteorological Department Curaçao
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: pressure, secondary sensor: radar, tertiary sensor: bubbler
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	6 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=bull&output=tab&period=0.5
Document URL	

Country Code	CW
Station Name	Curaçao
Latitude	12.11667
Longitude	-68.93333
Operator	Curaçao Ports Authority
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	It is in the channel in the Harbor next to the Head office of the Curacao Ports Authority. It is mounted next to the wharf/quay.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/stations.xls

Country Code	DO
Station Name	Barahona
Latitude	18.2
Longitude	-71.083
Operator	Oficina Nacional de Meteorología
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: radar , secondary sensor: pressure
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3554
Sampling Interval	1 min
Latency	7 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=bara&output=tab&period=0.5
Document URL	

Country Code	DO
Station Name	Puerto Plata
Latitude	19.817
Longitude	-70.7
Operator	Oficina Nacional de Meteorología / University of Hawaii Sea Level Center (UHSLC)
Start Date	22-Jun-10
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: radar (Vega Vegapuls 62), secondary sensor: pressure, tertiary sensor: radar
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3556
Sampling Interval	1 min
Latency	6 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=ptpl&output=tab&period=0.5
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa777a.dmt

Country Code	DO
Station Name	Punta Cana
Latitude	18.5
Longitude	-68.38
Operator	Oficina Nacional de Meteorología / University of Hawaii Sea Level Center (UHSLC)
Start Date	18-Jun-10
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: radar (Vega Vegapuls 62), secondary sensor: pressure, tertiary sensor: radar
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3558
Sampling Interval	1 min
Latency	6 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=ptca&output=tab&period=0.5
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa776a.dmt

Country Code	DO
Station Name	Roseau
Latitude	15.31
Longitude	-61.39
Operator	University of Hawaii Sea Level Center (UHSLC)
Start Date	16-May-11
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: radar (Vega Vegapuls 62), secondary sensor: pressure, tertiary sensor: bubbler
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	6 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=rose&output=tab&period=0.5
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa786a.dmt

Country Code	DO
Station Name	Santo Domingo/p.San Andres
Latitude	18.42
Longitude	-69.63
Operator	Oficina Nacional de Meteorología
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	10 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=sdom&output=tab&period=0.5
Document URL	

Country Code	ES
Station Name	Arinaga
Latitude	27.847
Longitude	-15.401
Operator	Puertos del Estado
Start Date	2004
End Date	
Datum	
Time Offset	
Instrument Type	Aanderaa pressure sensor
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3137
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=22947&version=1.0&lang=1&format=1

Country Code	ES
Station Name	Arrecife
Latitude	28.972
Longitude	-13.53
Operator	Puertos del Estado
Start Date	2008
End Date	
Datum	Harbour Datum
Time Offset	
Instrument Type	MIROS radar
Site of Measuring Point	Placed in Sardinales Quay, near the IEO tide gauge
Benchmark	SSMFO Bronze benchmark on the floor inside the IEO hut
GNSS	
Sampling Interval	1 min
Latency	
Delivery Method	
Data URL	http://www.puertos.es/en-us/oceanografia/Pages/portus.aspx
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=22947&version=1.0&lang=1&format=1

Country Code	ES
Station Name	Fuerteventura
Latitude	28.493
Longitude	-13.858
Operator	Puertos del Estado
Start Date	2004
End Date	
Datum	Harbour Datum
Time Offset	
Instrument Type	MIROS radar
Site of Measuring Point	Placed at the end of the cruises dock, in El Rosario Harbour (Fuerteventura Island).
Benchmark	NGAB-MAREO (N) Over the northwest corner of the base of the lighthouse by the tide gauge
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3135
Sampling Interval	1 min
Latency	
Delivery Method	
Data URL	http://www.puertos.es/en-us/oceanografia/Pages/portus.aspx
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=22947&version=1.0&lang=1&format=1

Country Code	ES
Station Name	Gomera
Latitude	28.088
Longitude	-17.108
Operator	Puertos del Estado
Start Date	2006
End Date	
Datum	Harbour Datum
Time Offset	
Instrument Type	MIROS radar
Site of Measuring Point	Placed next to the green signal of the sport basin jetty.
Benchmark	B.M.MAR.LAGOMERA Over the northwest corner of the base of the lighthouse by the tide gauge
GNSS	
Sampling Interval	1 min
Latency	
Delivery Method	
Data URL	http://www.puertos.es/en-us/oceanografia/Pages/portus.aspx
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=22947&version=1.0&lang=1&format=1

Country Code	ES
Station Name	Granadilla
Latitude	28.085
Longitude	-16.49
Operator	Puertos del Estado
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Aanderaa pressure sensor
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/spain_gexii2011.pdf

Country Code	ES
Station Name	Hierro
Latitude	27.784
Longitude	-17.902
Operator	Puertos del Estado
Start Date	2001
End Date	
Datum	Harbour Datum
Time Offset	
Instrument Type	MIROS radar
Site of Measuring Point	Placed on the dock at the entrance of the marina, in the Port of La Estaca.
Benchmark	B.M.MAREOG.HIERRO2 Over the quay, at the right side of the tide gauge
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3143
Sampling Interval	1 min
Latency	
Delivery Method	
Data URL	http://www.puertos.es/en-us/oceanografia/Pages/portus.aspx
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=22947&version=1.0&lang=1&format=1

Country Code	ES
Station Name	La Palma
Latitude	28.678
Longitude	-17.768
Operator	Puertos del Estado
Start Date	2006
End Date	
Datum	Harbour Datum
Time Offset	
Instrument Type	MIROS radar
Site of Measuring Point	Placed next to the green buoy signal of the sport basin jetty.
Benchmark	B.M.MAR.LAPALMA Over the quay, on the right side of the tide gauge
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3140
Sampling Interval	1 min
Latency	
Delivery Method	
Data URL	http://www.puertos.es/en-us/oceanografia/Pages/portus.aspx
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=22947&version=1.0&lang=1&format=1

Country Code	ES
Station Name	Las Palmas
Latitude	28.167
Longitude	-15.417
Operator	Puertos del Estado
Start Date	
End Date	
Datum	Harbour Datum
Time Offset	
Instrument Type	MIROS radar
Site of Measuring Point	Placed near the head part of the Elder dock, next to the green buoy.
Benchmark	FARO Over the northwest corner of the base of the lighthouse by the tide gauge
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.puertos.es/en-us/oceanografia/Pages/portus.aspx
Document URL	

Country Code	ES
Station Name	Puerto de la Cruz
Latitude	28.42
Longitude	-16.55
Operator	National Geographic Institute
Start Date	
End Date	
Datum	Geodetic Datum (IGN)
Time Offset	
Instrument Type	Radar
Site of Measuring Point	Placed on the fishing harbor of Puerto de la Cruz (Tenerife)
Benchmark	NGZ581
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2551
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.puertos.es/en-us/oceanografia/Pages/portus.aspx
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=22947&version=1.0&lang=1&format=1

Country Code	ES
Station Name	Puerto del Rosario
Latitude	28.5
Longitude	-13.86
Operator	National Geographic Institute
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	Placed on the yacht quay at Puerto del Rosario (Fuerteventura)
Benchmark	SSPozo
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.puertos.es/en-us/oceanografia/Pages/portus.aspx
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=22947&version=1.0&lang=1&format=1

Country Code	ES
Station Name	Santa Cruz de Tenerife
Latitude	28.48
Longitude	-16.24
Operator	National Geographic Institute
Start Date	
End Date	
Datum	Geodetic Datum (IGN)
Time Offset	
Instrument Type	Radar
Site of Measuring Point	Placed on the North Quay of Santa Cruz de Tenerife Harbour, Anaga dock
Benchmark	NGU320
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2546
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.puertos.es/en-us/oceanografia/Pages/portus.aspx
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=22947&version=1.0&lang=1&format=1

Country Code	ES
Station Name	Tenerife
Latitude	28.483
Longitude	-16.233
Operator	Puertos del Estado
Start Date	
End Date	
Datum	Harbour Datum
Time Offset	
Instrument Type	MIROS radar
Site of Measuring Point	Placed right on the IGN tide gauge house, at the South East corner of the North Dock
Benchmark	SS 412 In front of the door of the IGN hut, beside the balustrade
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2546
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.puertos.es/en-us/oceanografia/Pages/portus.aspx
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=22947&version=1.0&lang=1&format=1

Country Code	FK
Station Name	Port Stanley
Latitude	-51.69
Longitude	-57.865
Operator	National Oceanography Centre
Start Date	02-Nov-64
End Date	
Datum	
Time Offset	
Instrument Type	OTT DCP, Waterlog radar, 2 x PLS pressure sensors, POL Tidata (logger and digiquartz sensors)
Site of Measuring Point	Eastern end of Port Stanley harbour by the 'floating warehouses' (FIPASS).
Benchmark	"Stanley B-datum November 1998" is 2.935m below benchmark A (BM A).
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=1870
Sampling Interval	1 min
Latency	18 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=stan&output=tab&period=0.5
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30366&version=1.0&lang=1&format=15

Country Code	GB
Station Name	Signy
Latitude	-60.7
Longitude	-45.6
Operator	National Oceanography Centre
Start Date	19-Dec-88
End Date	12-Mar-12
Datum	
Time Offset	
Instrument Type	POL Tidata (logger with 2 Digiquartz sensors)
Site of Measuring Point	Data logger in nearby British Antarctic Survey boat house / generator building.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.ntsif.org/files/acclaimdata/phase1/
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30366&version=1.0&lang=1&format=15

Country Code	GD
Station Name	Coast Guard Base, True Blue, St. George
Latitude	12
Longitude	-61.75
Operator	Grenada Airport Authority
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	The monitoring station is located on the south side of the Grenada Coast Guard Base Pier.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/report.pdf

Country Code	GD
Station Name	Prickly Bay
Latitude	12.005
Longitude	-61.765
Operator	University of Hawaii Sea Level Center (UHSLC)
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: pressure, Secondary sensor: radar, Tertiary sensor: bubbler
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	6 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=pric&output=tab&period=0.5
Document URL	

Country Code	GF
Station Name	Ile Royale
Latitude	5.284
Longitude	-52.587
Operator	Service hydrographique et océanographique de la marine
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3414
Sampling Interval	1 min
Latency	
Delivery Method	FTP, GPRS, GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=iler&output=tab&period=0.5
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30359&version=1.0&lang=1&format=1

Country Code	GH
Station Name	Takoradi
Latitude	4.885
Longitude	-1.745
Operator	Survey of Ghana
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Primary Channel:OTT Kalesto Radar Sensor, Secondary Channels:2 x OTT ODS4-K Pressure Sensors
Site of Measuring Point	Takoradi harbour, in a tide gauge hut belonging to the Western Region Survey Department
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.gloss-sealevel.org/data/africa_and_west_indian_ocean
Document URL	http://www.gloss-sealevel.org/data/africa_and_west_indian_ocean/documents/takoradi.pdf

Country Code	GH
Station Name	Tema
Latitude	5.617
Longitude	0
Operator	Survey and Mapping Division
Start Date	1963
End Date	1982
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/1049.php

Country Code	GM
Station Name	Banjul
Latitude	13.44
Longitude	-16.57
Operator	Department of Water Resources
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	15 min
Latency	
Delivery Method	FTP
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=bnjl&output=tab&period=0.5
Document URL	

Country Code	GN
Station Name	Conakry
Latitude	9.51667
Longitude	-13.71667
Operator	Ctr. de Recherches Scientifiques de Conakry-Rogbane
Start Date	
End Date	
Datum	The chart datum is 2.044 m below IGN datum (local datum).
Time Offset	
Instrument Type	A. OTT float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/1477.php

Country Code	GN
Station Name	Kamsar
Latitude	10.65
Longitude	-14.61667
Operator	French Institute of Research and Development (IRD)
Start Date	
End Date	
Datum	The chart datum is 6.912 m below TGBM.
Time Offset	
Instrument Type	A. OTT float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/guinea_2011.pdf

Country Code	GP
Station Name	Deshaies
Latitude	16.31
Longitude	-61.8
Operator	Institut de Physique du Globe de Paris, Observatoire Volcanologique et Sismologique de Guadeloupe
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	7 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/station.php?code=desh#mess
Document URL	

Country Code	GP
Station Name	La Desirade Island
Latitude	16.3
Longitude	-61.07
Operator	Institut de Physique du Globe de Paris, Observatoire Volcanologique et Sismologique de Guadeloupe
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3098
Sampling Interval	1 min
Latency	7 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=desi&output=tab&period=0.5
Document URL	

Country Code	GP
Station Name	Pointe à Pitre
Latitude	16.224
Longitude	-61.531
Operator	Service hydrographique et océanographique de la Marine
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3099
Sampling Interval	1 min
Latency	9 min
Delivery Method	FTP, GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=ptpt&output=tab&period=0.5
Document URL	

Country Code	GS
Station Name	King Edward Point
Latitude	-54.28
Longitude	-36.5
Operator	National Oceanography Centre
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	KPSI full tide pressure sensor, KPSI mid-tide pressure sensor
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3411
Sampling Interval	1 min
Latency	
Delivery Method	FTP
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=kepo&output=tab&period=0.5
Document URL	

Country Code	GT
Station Name	Santo Tomas de Castilla
Latitude	15.7
Longitude	-88.617
Operator	Insivumeh
Start Date	1964
End Date	2001
Datum	
Time Offset	
Instrument Type	Pressure sensor
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/guatemala_2011.pdf

Country Code	GY
Station Name	Georgetown
Latitude	6.80917
Longitude	-58.16917
Operator	CPACC/MACC
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Acoustic
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	GOES
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/stations.xls

Country Code	GY
Station Name	Parika
Latitude	6.84667
Longitude	-58.385
Operator	CPACC/MACC
Start Date	01-Oct-98
End Date	
Datum	
Time Offset	
Instrument Type	Acoustic
Site of Measuring Point	Monitoring Station is located on the southeast end of the ferry landing pier on the Essequibo River entrance at Parika.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	GOES
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/stations.xls

Country Code	GY
Station Name	Rosignol
Latitude	6.30417
Longitude	-57.5125
Operator	CPACC/MACC
Start Date	07-Oct-98
End Date	
Datum	
Time Offset	
Instrument Type	Acoustic
Site of Measuring Point	Monitoring Station is located on the southeast end of the ferry landing pier on the Berbice River entrance at Rosignol.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	GOES
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/stations.xls

Country Code	HN
Station Name	Cayos Cochinos
Latitude	15.9525
Longitude	-86.49889
Operator	Unknown
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	GOES
Data URL	
Document URL	

Country Code	HN
Station Name	La Ceiba Cabotaje Harbor
Latitude	15.79
Longitude	-86.76
Operator	Comision Permanente de Contingencias
Start Date	01-Feb-85
End Date	
Datum	
Time Offset	
Instrument Type	Pressure sensor
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	10 min
Latency	13 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=ceib&output=tab&period=0.5
Document URL	

Country Code	HN
Station Name	Puerto Castilla
Latitude	16.017
Longitude	-86.033
Operator	NOAA / National Ocean Service
Start Date	03-Jun-55
End Date	30-Nov-67
Datum	
Time Offset	
Instrument Type	Float gauge
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa784a.dmt

Country Code	HN
Station Name	Puerto Cortes
Latitude	15.833
Longitude	-87.95
Operator	NOAA / National Ocean Service
Start Date	05-Feb-48
End Date	12-Sep-02
Datum	
Time Offset	
Instrument Type	Float gauge, Aquatrak acoustic gauge (2001-2002)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9650593
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9650593

Country Code	HN
Station Name	Roatan Island Punta Gorda Harbor
Latitude	16.35
Longitude	-86.54
Operator	Comision Permanente de Contingencias
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Pressure sensor
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	10 min
Latency	13 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=rtas&output=tab&period=0.5
Document URL	

Country Code	HN
Station Name	Swan Island
Latitude	17.4
Longitude	83.8
Operator	Unknown
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Pressure sensor
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	

Country Code	HN
Station Name	Tela Harbor
Latitude	15.78
Longitude	-87.45
Operator	Comision Permanente de Contingencias
Start Date	04-May-15
End Date	
Datum	
Time Offset	
Instrument Type	Pressure sensor
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	10 min
Latency	
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=tela&output=tab&period=0.5
Document URL	

Country Code	HN
Station Name	Utila Island
Latitude	16.1
Longitude	-86.89
Operator	Comision Permanente de Contingencias
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Pressure sensor
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	10 min
Latency	
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=util&output=tab&period=0.5
Document URL	

Country Code	HT
Station Name	Cap Haitien
Latitude	19.76
Longitude	-72.19
Operator	Service Maritime et de Navigation d'Haiti
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: pressure, Secondary sensor: bubbler, Tertiary sensor: radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	6 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=caph&output=tab&period=0.5
Document URL	

Country Code	HT
Station Name	Jacamel
Latitude	18.23
Longitude	-72.54
Operator	Service Maritime et de Navigation d'Haiti
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: radar, Secondary sensor: pressure
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=jaca&output=tab&period=0.5
Document URL	

Country Code	HT
Station Name	Port au Prince
Latitude	18.567
Longitude	-72.35
Operator	NOAA / National Ocean Service
Start Date	1949
End Date	1961
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/583.php

Country Code	JM
Station Name	Discovery Bay
Latitude	18.46833
Longitude	-77.41667
Operator	CPACC/MACC
Start Date	10-Jun-98
End Date	
Datum	
Time Offset	
Instrument Type	Acoustic
Site of Measuring Point	Monitoring Station is located on the south side of the concrete pier located on the Jamaica Defense Force Base at Puerto Seco Beach at Discovery Bay.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	GOES
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/stations.xls

Country Code	JM
Station Name	Port Royal
Latitude	17.933
Longitude	-76.85
Operator	NOAA / National Ocean Service
Start Date	1954
End Date	1969
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/744.php

Country Code	KN
Station Name	Basseterre
Latitude	17.29
Longitude	-62.71
Operator	CPACC/MACC
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Acoustic
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	GOES
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/stations.xls

Country Code	KY
Station Name	Georgetown
Latitude	19.3
Longitude	-81.43333
Operator	Mosquito Research and Control Unit, Cayman Islands Government
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	OTT R16 Float Water Level Gauge
Site of Measuring Point	Gauge is located in the shallow sound enclosed by a fringing reef. In the sound toward the southerly edge of the sound.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/stations.xls

Country Code	KY
Station Name	North Sound
Latitude	19.3
Longitude	-81.317
Operator	Mosquito Research and Control Unit, Cayman Islands Government
Start Date	1976
End Date	1996
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/1422.php

Country Code	KY
Station Name	South Sound
Latitude	19.267
Longitude	-81.383
Operator	Mosquito Research and Control Unit, Cayman Islands Government
Start Date	1976
End Date	1996
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/1426.php

Country Code	LC
Station Name	Castries
Latitude	14.02222
Longitude	-61.00167
Operator	CPACC/MACC
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Acoustic
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	GOES
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/stations.xls

Country Code	LC
Station Name	Ganter's Bay
Latitude	14.02
Longitude	-61
Operator	Saint Lucia Met Service
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: radar, Secondary sensor: pressure, Tertiary sensor: pressure
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	7 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=stlu&output=tab&period=0.5
Document URL	

Country Code	MA
Station Name	Agadir
Latitude	30.43333
Longitude	-9.6
Operator	Direction des Ports et du Domaine Public Maritime
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	VegaPuls Radar 65
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/morocco_gex2007.pdf

Country Code	MA
Station Name	Casablanca
Latitude	33.6
Longitude	-7.6
Operator	Agence Nationale de la Conservation Foncière du Cadastre et de la Cartographie
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Acoustic
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/morocco_gex2007.pdf

Country Code	MA
Station Name	Dakhla
Latitude	23.71667
Longitude	-15.95
Operator	Direction des Ports et du Domaine Public Maritime
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	VegaPuls Radar 65
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/morocco_gex2007.pdf

Country Code	MA
Station Name	Jorf Lasfar
Latitude	33.11667
Longitude	-8.63333
Operator	Direction des Ports et du Domaine Public Maritime
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	VegaPuls Radar 65
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/morocco_gex2007.pdf

Country Code	MA
Station Name	Kénitra
Latitude	34.26667
Longitude	-6.66667
Operator	Direction des Ports et du Domaine Public Maritime
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	VegaPuls Radar 65
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/morocco_gex2007.pdf

Country Code	MA
Station Name	Layoune
Latitude	27.15
Longitude	-13.2
Operator	Direction des Ports et du Domaine Public Maritime
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	VegaPuls Radar 65
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/morocco_gex2007.pdf

Country Code	MA
Station Name	Mohammadia
Latitude	33.71667
Longitude	-7.33333
Operator	Direction des Ports et du Domaine Public Maritime
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	VegaPuls Radar 65
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/morocco_gex2007.pdf

Country Code	MA
Station Name	Safi
Latitude	32.33333
Longitude	-9.28333
Operator	Direction des Ports et du Domaine Public Maritime
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	VegaPuls Radar 65
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/morocco_gex2007.pdf

Country Code	MA
Station Name	Tan Tan
Latitude	28.5
Longitude	-11.05
Operator	Direction des Ports et du Domaine Public Maritime
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	VegaPuls Radar 65
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/morocco_gex2007.pdf

Country Code	MA
Station Name	Tanger
Latitude	35.8
Longitude	-5.75
Operator	Direction des Ports et du Domaine Public Maritime
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	VegaPuls Radar 65
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/morocco_gex2007.pdf

Country Code	MF
Station Name	Saint Martin Island
Latitude	18.08
Longitude	-63.09
Operator	Collectivité de Saint Martin
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: radar, Secondary sensor: pressure
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	7 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=stmt&output=tab&period=0.5
Document URL	

Country Code	MQ
Station Name	Fort-de-France
Latitude	14.602
Longitude	-61.063
Operator	Service hydrographique et océanographique de la Marine, Météo France and Marine Nationale
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	OTT type R16 (1976-1985), Radar Krohne Optiflex (2005-)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	ADSL, GTS
Data URL	
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30359&version=1.0&lang=1&format=1

Country Code	MQ
Station Name	Le Prêcheur
Latitude	14.81
Longitude	-61.23
Operator	Conseil Général de la Martinique
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Pressure
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	7 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=prec&output=tab&period=0.5
Document URL	

Country Code	MQ
Station Name	Le Robert
Latitude	14.68
Longitude	-60.94
Operator	Service hydrographique et océanographique de la Marine
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	OTT type R16
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	

Country Code	MR
Station Name	Nouadhibou
Latitude	20.81
Longitude	-17.04
Operator	Office National de la Météorologie
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	5 min
Latency	
Delivery Method	FTP
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=noua&output=tab&period=0.5
Document URL	

Country Code	MR
Station Name	Nouakchott
Latitude	17.98956
Longitude	-16.03696
Operator	Port Autonome de Nouakchott
Start Date	05-Jan-07
End Date	30-Apr-09
Datum	Chart Datum = 6.517m below Bolt
Time Offset	
Instrument Type	Primary Channel:OTT Kalesto Radar Sensor, Secondary Channels:2 x OTT ODS4-K Pressure Sensors
Site of Measuring Point	End of the main pier of the new jetty of Nouakchott harbour, near the meteorological observatory
Benchmark	Name: Bolt, Description: Bolt soldered onto pressure sensors steel tube near radar arm.
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.gloss-sealevel.org/data/africa_and_west_indian_ocean
Document URL	http://www.gloss-sealevel.org/data/africa_and_west_indian_ocean/documents/nouakchott.pdf

Country Code	MX
Station Name	Alvarado
Latitude	18.767
Longitude	-95.767
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	
Delivery Method	FTP
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=alva&output=tab&period=0.5
Document URL	

Country Code	MX
Station Name	Cancun
Latitude	21.18
Longitude	-86.81
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	

Country Code	MX
Station Name	Celestún
Latitude	20.86451
Longitude	-90.40512
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float and radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	
Delivery Method	Cellular, FTP
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=clst&output=tab&period=0.5
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30127&version=1.0&lang=1&format=1

Country Code	MX
Station Name	Chetumal
Latitude	18.48
Longitude	-88.3
Operator	Universidad Nacional Autónoma de México
Start Date	Mar-85
End Date	
Datum	
Time Offset	
Instrument Type	Digital float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://unesdoc.unesco.org/images/0007/000764/076404eo.pdf

Country Code	MX
Station Name	Ciudad Del Carmen
Latitude	18.633
Longitude	-91.85
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	Cellular
Data URL	
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30127&version=1.0&lang=1&format=1

Country Code	MX
Station Name	Ciudad Madero
Latitude	22.25
Longitude	-97.8
Operator	Servicio Mareografico Nacional, Instituto de Geofisica, Ciudad Universitaria
Start Date	1962
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/1020.php

Country Code	MX
Station Name	Coatzacoalcos
Latitude	18.15
Longitude	-94.417
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mareografico.unam.mx/portal/index.php?page=Estaciones
Document URL	

Country Code	MX
Station Name	Desembocadura Rio Grijalva
Latitude	18.57217
Longitude	-92.70633
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30127&version=1.0&lang=1&format=1

Country Code	MX
Station Name	Frontera
Latitude	18.15
Longitude	-94.27
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	Cellular, FTP
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=frtr&output=tab&period=0.5
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30127&version=1.0&lang=1&format=1

Country Code	MX
Station Name	Isla Cozumel, Q. Roo
Latitude	20.527
Longitude	-86.94017
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Pressure
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30127&version=1.0&lang=1&format=1

Country Code	MX
Station Name	Isla Mujeres, Q Roo
Latitude	21.217
Longitude	-86.717
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	Cellular
Data URL	
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30127&version=1.0&lang=1&format=1

Country Code	MX
Station Name	Lerma Campeche
Latitude	19.81
Longitude	-90.59
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2993
Sampling Interval	6 min
Latency	
Delivery Method	Cellular
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=camt&output=tab&period=0.5
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30127&version=1.0&lang=1&format=1

Country Code	MX
Station Name	Progreso
Latitude	21.3
Longitude	-89.667
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2954
Sampling Interval	1 min
Latency	6 min
Delivery Method	FTP, GOES
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=prog2&output=tab&period=0.5
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30127&version=1.0&lang=1&format=1

Country Code	MX
Station Name	Puerto Morelos
Latitude	21.37
Longitude	-86.75
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float and radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	GOES
Data URL	
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30127&version=1.0&lang=1&format=1

Country Code	MX
Station Name	Sanchez Magallanes
Latitude	18.29683
Longitude	-93.8545
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float and radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mareografico.unam.mx/portal/index.php?page=Estaciones
Document URL	

Country Code	MX
Station Name	Sian Ka'an
Latitude	19.31
Longitude	-87.45
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	
Delivery Method	FTP
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=sian&output=tab&period=0.5
Document URL	

Country Code	MX
Station Name	Sisal
Latitude	21.16
Longitude	-90.05
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	
Delivery Method	Cellular, FTP
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=sisa&output=tab&period=0.5
Document URL	

Country Code	MX
Station Name	Tampico Madero
Latitude	22.26167
Longitude	-97.795
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.mareografico.unam.mx/portal/index.php?page=Estaciones
Document URL	

Country Code	MX
Station Name	Telchac
Latitude	21.34
Longitude	-89.30833
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	
Delivery Method	Cellular, FTP
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=telc&output=tab&period=0.5
Document URL	

Country Code	MX
Station Name	Tuxpan
Latitude	21
Longitude	-97.333
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float and radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	
Delivery Method	Cellular, FTP, GOES
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=tuxp&output=tab&period=0.5
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30127&version=1.0&lang=1&format=1

Country Code	MX
Station Name	Veracruz
Latitude	19.19206
Longitude	-96.12355
Operator	Universidad Nacional Autónoma de México
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float, pressure and radar
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2955
Sampling Interval	1 min
Latency	26 min
Delivery Method	Cellular, GOES, GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=vera2&output=tab&period=0.5
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30127&version=1.0&lang=1&format=1

Country Code	NA
Station Name	Luderitz
Latitude	-26.643
Longitude	15.155
Operator	South African Navy Hydrographic Office
Start Date	1958
End Date	
Datum	All tidal heights are given above Chart Datum, which is now Lowest Astronomical Tide (LAT) in all ports of the Republic of South Africa and Namibia.
Time Offset	
Instrument Type	KENT float-type (1958-1998), SRD acoustic tide gauge (1997-1998), Ott Kalesto radar gauge (2008)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa702a.dmt

Country Code	NA
Station Name	Walvis Bay
Latitude	-22.949
Longitude	14.499
Operator	South African Navy Hydrographic Office
Start Date	1958
End Date	
Datum	All tidal heights are given above Chart Datum, which is now Lowest Astronomical Tide (LAT) in all ports of the Republic of South Africa and Namibia.
Time Offset	
Instrument Type	Kent float (1959-1966), Lea float (1966-1974), Ott float (1976-1998), AWLR acoustic tide gauge (1996-1998), Ott Kalesto radar gauge (2008-)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa220a.dmt

Country Code	NG
Station Name	Bonny
Latitude	4.45
Longitude	7.183
Operator	Shell BP Petroleum Development Co. of Nigeria Ltd.
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/1039.php

Country Code	NG
Station Name	Calabar
Latitude	4.967
Longitude	8.317
Operator	Nigerian Ports Authority
Start Date	1937
End Date	1964
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/419.php

Country Code	NG
Station Name	Forcados
Latitude	5.35
Longitude	5.35
Operator	Shell BP Petroleum Development Co. of Nigeria Ltd.
Start Date	1934
End Date	1975
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/389.php

Country Code	NG
Station Name	Lagos
Latitude	6.417
Longitude	3.417
Operator	Nig. Inst. for Oceanographic and Marine Research
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Float (1985-1992), Acoustic NGWLMS (1992-2000), Kalesto radar (2006-)
Site of Measuring Point	Jetty of the Nigerian Institute for Oceanography and Marine Research.
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	
Document URL	https://www.gloss-sealevel.org/publications/documents/nigeria_2006.pdf

Country Code	NG
Station Name	Port Harcourt
Latitude	4.767
Longitude	7
Operator	Nigerian Ports Authority
Start Date	1935
End Date	1936
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/404.php

Country Code	NI
Station Name	Corn Island
Latitude	12.33
Longitude	-83.07
Operator	Instituto Nicaragüense de Estudios Territoriales - Hydrological Unit
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Pressure sensor
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	8 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=cois&output=tab&period=0.5
Document URL	

Country Code	NI
Station Name	Puerto Cabezas
Latitude	14.1
Longitude	83.6
Operator	RONMAC
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Acoustic
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	

Country Code	PA
Station Name	Bocas Del Toro
Latitude	9.35
Longitude	-82.26
Operator	Smithsonian Tropical Research Institute
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: Pressure, Secondary sensor: radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	6 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=bdto&output=tab&period=0.5
Document URL	

Country Code	PA
Station Name	Coco Solo
Latitude	9.367
Longitude	-79.883
Operator	Panama Canal Commission
Start Date	01-Jan-81
End Date	30-Jun-96
Datum	
Time Offset	
Instrument Type	Stevens Digital Model 7001 (1981-1987), Handar Digital 550B Hydrologger (1988-1996), Stevens A71 Analogue (1988-1996)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	

Country Code	PA
Station Name	Cristobal
Latitude	9.35
Longitude	-79.917
Operator	Panama Canal Commission
Start Date	03-Apr-07
End Date	01-Dec-78
Datum	
Time Offset	
Instrument Type	Analogue (1907-1969), Stevens Type F Analogue (1970-1973), Stevens A71 Analogue (1973-1978)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	

Country Code	PA
Station Name	El Porvenir
Latitude	9.56
Longitude	-78.95
Operator	Instituto de Geociencias, Universidad de Panamá
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Primary sensor: Pressure, Secondary sensor: radar, Tertiary sensor: bubbler
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=elpo&output=tab&period=0.5
Document URL	

Country Code	PA
Station Name	Limon Bay
Latitude	9.35556
Longitude	-79.91472
Operator	Seccion de Meteorologia e Hidrologia
Start Date	1996
End Date	
Datum	
Time Offset	
Instrument Type	Float
Site of Measuring Point	Mounted out towards the Jetty, on the end of a pier. There is a big breakwater jetty between it and the open ocean.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/stations.xls

Country Code	PR
Station Name	Aguadilla
Latitude	18.457
Longitude	-67.163
Operator	NOAA / National Ocean Service
Start Date	09-Feb-76
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9759412
Time Offset	
Instrument Type	No description
Site of Measuring Point	The NOAA Station is located on the most southerly of four concrete cells.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=9759412
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9759412
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9759412

Country Code	PR
Station Name	Arecibo
Latitude	18.48
Longitude	-66.7017
Operator	NOAA / National Ocean Service
Start Date	05-Mar-07
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9757809
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9757809
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9757809

Country Code	PR
Station Name	Caja de Muertos
Latitude	17.89
Longitude	-66.53
Operator	Universidad de Puerto Rico
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	
Delivery Method	
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=camu&output=tab&period=0.5
Document URL	

Country Code	PR
Station Name	Culebra
Latitude	18.302
Longitude	-65.303
Operator	NOAA / National Ocean Service
Start Date	15-Aug-05
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9752235
Time Offset	
Instrument Type	Pressure sensor
Site of Measuring Point	
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=9752235
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9752235
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9752235

Country Code	PR
Station Name	Esperanza, Vieques Island
Latitude	18.093
Longitude	-65.472
Operator	NOAA / National Ocean Service
Start Date	11-Aug-05
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9752695
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The station is located in the middle of the concrete pier, being an aluminum enclosure with two 20 ft fiberglass mast.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=9752695
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9752695
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9752695

Country Code	PR
Station Name	Fajardo
Latitude	18.335
Longitude	-65.63
Operator	NOAA / National Ocean Service
Start Date	17-Feb-64
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9753216
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9753216
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9753216

Country Code	PR
Station Name	Isabel Segunda, Vieques Island
Latitude	18.1517
Longitude	-65.4433
Operator	NOAA / National Ocean Service
Start Date	13-Sep-07
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9752619
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9752619
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9752619

Country Code	PR
Station Name	Magueyes Island
Latitude	17.97
Longitude	-67.045
Operator	NOAA / National Ocean Service
Start Date	01-Dec-54
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9759110
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge and staff are on an L-shaped pier on the west side of the island.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=9759110
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=1893
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9759110
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9759110

Country Code	PR
Station Name	Mayaguez
Latitude	18.2183
Longitude	-67.1583
Operator	NOAA / National Ocean Service
Start Date	09-Dec-75
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9759394
Time Offset	
Instrument Type	Microwave radar
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3115
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9759394
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9759394

Country Code	PR
Station Name	Mona Island
Latitude	18.09
Longitude	-67.938
Operator	NOAA / National Ocean Service
Start Date	15-Sep-06
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9759938
Time Offset	
Instrument Type	Pressure sensor
Site of Measuring Point	The station is located on the pier and is attached to an abandoned building on the pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=9759938
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3017
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9759938
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9759938

Country Code	PR
Station Name	Penuelas (Punta Guayanilla)
Latitude	17.97
Longitude	-66.76
Operator	NOAA / National Ocean Service
Start Date	26-Mar-01
End Date	04-Jun-13
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9758053
Time Offset	
Instrument Type	No description
Site of Measuring Point	The tide gauge was located near the SW end of the pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=9758053
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9758053
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9758053

Country Code	PR
Station Name	San Juan, La Puntilla, San Juan Bay
Latitude	18.458
Longitude	-66.115
Operator	NOAA / National Ocean Service
Start Date	04-Mar-62
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9755371
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge and staff are on the southern tip of the U.S. Coast Guard compound.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=9755371
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9755371
Document URL	

Country Code	PR
Station Name	Yabucoa Harbor
Latitude	18.055
Longitude	-65.8333
Operator	NOAA / National Ocean Service
Start Date	10-Apr-74
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9754228
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9754228
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9754228

Country Code	SH
Station Name	English Bay, Ascension Island
Latitude	-7.893
Longitude	-14.386
Operator	National Oceanography Centre
Start Date	23-May-93
End Date	
Datum	
Time Offset	
Instrument Type	OTT DCP, Waterlog radar, KPSI 500 full tide pressure, KPSI 500 mid tide pressure, POL Tidata (logger and Quartztronic sensors)
Site of Measuring Point	English Bay, Hook Jetty.
Benchmark	"Ascension B-datum March 1999" is 3.176m below benchmark POL13 (POL13 BM).
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=630
Sampling Interval	1 min
Latency	18 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=ascen&output=tab&period=0.5
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30366&version=1.0&lang=1&format=15

Country Code	SH
Station Name	Gough Island
Latitude	-40.32
Longitude	-9.95
Operator	Hartebeesthoek Radio Astronomy Observatory
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=684
Sampling Interval	3 min
Latency	8 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=goug&output=tab&period=0.5
Document URL	

Country Code	SH
Station Name	Jamestown Landing Steps, St. Helena
Latitude	-15.921
Longitude	-5.718
Operator	National Oceanography Centre
Start Date	05-Jun-93
End Date	
Datum	
Time Offset	
Instrument Type	Waterlog DCP and radar system, 2 x PLS pressure sensors
Site of Measuring Point	Jamestown Harbour, by the landing steps
Benchmark	"St. Helena B-datum April 1997" is 2.871m below the top step benchmark (BM top step).
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2576
Sampling Interval	1 min
Latency	8 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=sth&output=tab&period=0.5
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30366&version=1.0&lang=1&format=15

Country Code	SH
Station Name	Tristan da Cunha
Latitude	-37.05
Longitude	-12.3
Operator	National Oceanography Centre
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Waterlog DCP and radar system
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=tdcu&output=tab&period=0.5
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30366&version=1.0&lang=1&format=15

Country Code	SN
Station Name	Carabane
Latitude	12.56
Longitude	-16.7
Operator	Agence Nationale de l'Aviation Civile et de la Météorologie
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	MIROS radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	
Delivery Method	FTP
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=cara&output=tab&period=0.5
Document URL	

Country Code	SN
Station Name	Dakar
Latitude	14.633
Longitude	-17.45
Operator	University of Hawaii Sea Level Center (UHSLC)
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	1. 1996-2003: Aquatrak acoustic gauge (1996-2003), Primary sensor: radar gauge (Vega Vegapuls 62)(2007-), secondary sensor: pressure transducer (2007-)
Site of Measuring Point	
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2734
Sampling Interval	1 min
Latency	8 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=dakar&output=tab&period=0.5
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa223e.dmt

Country Code	SN
Station Name	St. Louis
Latitude	15.99
Longitude	-16.51
Operator	Agence Nationale de l'Aviation Civile et de la Météorologie
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	5 min
Delivery Method	FTP
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=stlo2&output=tab&period=0.5
Document URL	

Country Code	ST
Station Name	São Tomé
Latitude	0.34851
Longitude	6.73756
Operator	Laboratoire d'Etudes en Geophysique et Oceanographie Spatiale
Start Date	1985
End Date	
Datum	
Time Offset	
Instrument Type	Pressure
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	ARGOS
Data URL	
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=30359&version=1.0&lang=1&format=1

Country Code	TC
Station Name	South Caicos
Latitude	21.48
Longitude	-71.53
Operator	Florida Institute of Technology and Atlantic Oceanographic and Meteorological Lab
Start Date	13-Nov-91
End Date	08-Dec-92
Datum	
Time Offset	
Instrument Type	Aquatrak acoustic gauge
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://uhslc.soest.hawaii.edu/rqds/atlantic/doc/qa720a.dmt

Country Code	TT
Station Name	Cedros Bay
Latitude	10.09
Longitude	-61.87
Operator	Trinidad and Tobago Hydrographic Unit
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	10 min
Latency	
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=cdtt&output=tab&period=0.5
Document URL	

Country Code	TT
Station Name	Charlotteville
Latitude	11.32352
Longitude	-60.54933
Operator	Trinidad and Tobago Hydrographic Unit
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	10 min
Latency	
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=chrl&output=tab&period=0.5
Document URL	

Country Code	TT
Station Name	Port of Spain
Latitude	10.65
Longitude	-61.517
Operator	Trinidad and Tobago Hydrographic Unit
Start Date	1937
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	Northwest side of the Fire Pump House in the Port facility
Benchmark	
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3512
Sampling Interval	10 min
Latency	7 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=ptsp&output=tab&period=0.5
Document URL	

Country Code	TT
Station Name	Scarborough
Latitude	11.1785
Longitude	-60.73519
Operator	Trinidad and Tobago Hydrographic Unit
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	10 min
Latency	
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=scar&output=tab&period=0.5
Document URL	

Country Code	US
Station Name	Apalachicola, FL
Latitude	29.727
Longitude	-84.982
Operator	NOAA / National Ocean Service
Start Date	01-May-67
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8728690
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge and staff are located at the east corner of the Coast Guard dock.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8728690
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8728690
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8728690

Country Code	US
Station Name	Aransas Wildlife Refuge, TX
Latitude	28.2283
Longitude	-96.795
Operator	NOAA / National Ocean Service
Start Date	09-Oct-12
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8774230
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8774230
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8774230

Country Code	US
Station Name	Baffin Bay
Latitude	27.295
Longitude	-97.405
Operator	NOAA / National Ocean Service
Start Date	17-Nov-98
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8776604
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8776604
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8776604

Country Code	US
Station Name	Bay Waveland Yacht Club, MS
Latitude	30.325
Longitude	-89.325
Operator	NOAA / National Ocean Service
Start Date	31-May-78
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8747437
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge is located offshore a few hundred yards north of the yacht club, on the yellow pile.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8747437
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8747437
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8747437

Country Code	US
Station Name	Bayou La Batre Bridge, AL
Latitude	30.4067
Longitude	-88.2483
Operator	NOAA / National Ocean Service
Start Date	22-Apr-11
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8739803
Time Offset	
Instrument Type	Microwave radar
Site of Measuring Point	The tide gauge and sensor are located at the northwest end of the lift bridge.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8739803
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8739803
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8739803

Country Code	US
Station Name	Berwick
Latitude	29.67
Longitude	-91.24
Operator	NOAA / National Ocean Service
Start Date	24-Jul-03
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8764044
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8764044
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8764044
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8764044

Country Code	US
Station Name	Bob Hall Pier, Corpus Christi, TX
Latitude	27.58
Longitude	-97.2167
Operator	NOAA / National Ocean Service
Start Date	09-May-83
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8775870
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge is located on a platform at the NW corner of the pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8775870
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8775870
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8775870

Country Code	US
Station Name	Bulk Terminal
Latitude	30.19
Longitude	-93.3
Operator	NOAA / National Ocean Service
Start Date	10-Feb-09
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8767961
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge is anchored into the concrete on the SW end of the loading platform, 177.2 m (581.4 ft) SE of the electronic security gate at the entrance of the west bank bulk terminal.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8767961
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8767961
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8767961

Country Code	US
Station Name	Calcasieu Pass
Latitude	29.77
Longitude	-93.34
Operator	NOAA / National Ocean Service
Start Date	21-Feb-33
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8768094
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide station is located on the Jetty Fishing Pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8768094
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8768094
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8768094

Country Code	US
Station Name	Carrollton, LA
Latitude	29.93
Longitude	-90.14
Operator	NOAA / National Ocean Service
Start Date	15-May-96
End Date	
Datum	https://www.tidesandcurrents.noaa.gov/datums.html?id=8761955
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge was located on the north side of the large pier along the river near the south end of the building.
Benchmark	https://www.tidesandcurrents.noaa.gov/benchmarks.html?id=8761955
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://www.tidesandcurrents.noaa.gov/waterlevels.html?id=8761955
Document URL	https://www.tidesandcurrents.noaa.gov/stationhome.html?id=8761955

Country Code	US
Station Name	Cedar Key, FL
Latitude	29.133
Longitude	-83.033
Operator	NOAA / National Ocean Service
Start Date	12-Mar-14
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8727520
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge and staff are at the NW end of the restroom building near the foot of the pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8727520
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8727520
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8727520

Country Code	US
Station Name	Chickasaw Creek, AL
Latitude	30.7817
Longitude	-88.0733
Operator	NOAA / National Ocean Service
Start Date	22-Apr-11
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8737138
Time Offset	
Instrument Type	Microwave radar
Site of Measuring Point	The tide gauge and sensor are located at the north end of Sam Rawls gazebo.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8737138
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8737138
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8737138

Country Code	US
Station Name	Clearwater Beach, FL
Latitude	27.978
Longitude	-82.832
Operator	NOAA / National Ocean Service
Start Date	19-Apr-73
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8726724
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge is located at the seaward end of Big Pier 60 just east of the T-end.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8726724
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8726724
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8726724

Country Code	US
Station Name	Coast Guard Sector Mobile, AL
Latitude	30.6483
Longitude	-88.0583
Operator	NOAA / National Ocean Service
Start Date	03-Aug-07
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8736897
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide station is located on the pier of the Coast Guard base.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8736897
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8736897
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8736897

Country Code	US
Station Name	Cocoa Beach
Latitude	28.37
Longitude	-80.6
Operator	NOAA / National Ocean Service
Start Date	06-Oct-94
End Date	18-Feb-97
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8721649
Time Offset	
Instrument Type	Aquatrak acoustic gauge, NOAA Next Generation Water Level Measuring System (NGWLMS)
Site of Measuring Point	The tide gauge was located on the offshore end of the Cocoa Beach Pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8721649
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8721649
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8721649

Country Code	US
Station Name	Copano Bay (TCOON), TX
Latitude	28.1183
Longitude	-97.0217
Operator	NOAA / National Ocean Service
Start Date	08-Jan-04
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8774513
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8774513
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8774513

Country Code	US
Station Name	Corpus Christi, Gulf Mexico, TX
Latitude	27.583
Longitude	-97.217
Operator	NOAA / National Ocean Service
Start Date	31-Dec-88
End Date	04-Apr-91
Datum	
Time Offset	
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8775351
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8775351

Country Code	US
Station Name	Dames Point, FL
Latitude	30.3867
Longitude	-81.5583
Operator	NOAA / National Ocean Service
Start Date	12-Aug-77
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8720219
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge is mounted on an offshore four pile structure located about 135 m (443 ft) west of the Dames Point Park fishing pier and about 15 m (50 ft) offshore.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8720219
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8720219
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8720219

Country Code	US
Station Name	Dauphin Island, AL
Latitude	30.25
Longitude	-88.075
Operator	NOAA / National Ocean Service
Start Date	30-Mar-66
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8735180
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge is located atop a 7.6 m (25 ft) high tower on the SE side of a large fishing pier north of the fort.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8735180
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2972
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8735180
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8735180

Country Code	US
Station Name	Daytona Beach (Ocean), FL
Latitude	29.233
Longitude	-81
Operator	NOAA / National Ocean Service
Start Date	25-Sep-38
End Date	30-Sep-50
Datum	
Time Offset	
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	Monthly mean
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8721020
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8721020

Country Code	US
Station Name	Daytona Beach Shores, FL
Latitude	29.147
Longitude	-80.963
Operator	NOAA / National Ocean Service
Start Date	11-Feb-66
End Date	16-Aug-84
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8721120
Time Offset	
Instrument Type	No description
Site of Measuring Point	The tide staff and gauge were located on the Sunglow Fishing pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8721120
GNSS	
Sampling Interval	Monthly mean
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8721120
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8721120

Country Code	US
Station Name	Dock E, Port of Pascagoula, MS
Latitude	30.3483
Longitude	-88.505
Operator	NOAA / National Ocean Service
Start Date	22-Jan-08
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8741041
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	Station is located on the northeastern most section of Dock E on the concrete bulkhead.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8741041
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8741041
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8741041

Country Code	US
Station Name	Dog River Bridge, AL
Latitude	30.565
Longitude	-88.0883
Operator	NOAA / National Ocean Service
Start Date	08-Sep-10
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8735391
Time Offset	
Instrument Type	Microwave radar
Site of Measuring Point	The station is in the SE section of the dock. The microwave sensors are on the bridge.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8735391
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8735391
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8735391

Country Code	US
Station Name	Eagle Point
Latitude	29.48
Longitude	-94.92
Operator	NOAA / National Ocean Service
Start Date	14-Jun-73
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8771013
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge is located on the pier opposite the hotel, mounted on a square galvanized steel structure.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8771013
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8771013
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8771013

Country Code	US
Station Name	East Bank 1, Norco, B. LaBranche, LA
Latitude	30.05
Longitude	-90.37
Operator	NOAA / National Ocean Service
Start Date	30-Nov-82
End Date	05-Nov-12
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8762372
Time Offset	
Instrument Type	No description
Site of Measuring Point	The tide gauge was located at the wooden pier on the north side of the Hunt Club.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8762372
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8762372
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8762372

Country Code	US
Station Name	East Fowl River Bridge, AL
Latitude	30.4433
Longitude	-88.1133
Operator	NOAA / National Ocean Service
Start Date	24-Mar-80
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8735523
Time Offset	
Instrument Type	Microwave radar
Site of Measuring Point	The MLLWs are located on the top of the 193 bridge and the Hydro gauge is located just east of the Peligan Reef Restuarant.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8735523
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8735523
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8735523

Country Code	US
Station Name	Eugene Island, LA
Latitude	29.372
Longitude	-91.385
Operator	NOAA / National Ocean Service
Start Date	01-Apr-34
End Date	16-Aug-05
Datum	
Time Offset	
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8764311
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8764311

Country Code	US
Station Name	Fernandina Beach, FL
Latitude	30.672
Longitude	-81.465
Operator	NOAA / National Ocean Service
Start Date	18 May 1898
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8720030
Time Offset	
Instrument Type	1) Standard float/well system 2) Analog-to-Digital Recorder (ADR) (1985-1997) 3) Aquatrak acoustic NOAA Next Generation Water Level Measuring System (NG) (1998-) 5) Microwave radar
Site of Measuring Point	The tide station is on the Florida Petroleum Corporation dock near the foot of Calhoun Street.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8720030
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8720030
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8720030

Country Code	US
Station Name	Fort Myers, FL
Latitude	26.647
Longitude	-81.87
Operator	NOAA / National Ocean Service
Start Date	08-Mar-65
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8725520
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge and staff are located in the City of Fort Myers Yacht Basin on the west side of the west Basin entrance, at the foot of Hendry Street.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8725520
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3521
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8725520
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8725520

Country Code	US
Station Name	Freeport, TX
Latitude	28.948
Longitude	-95.308
Operator	NOAA / National Ocean Service
Start Date	08-Apr-54
End Date	19-Mar-08
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8772440
Time Offset	
Instrument Type	No description
Site of Measuring Point	The tide gauge is located on the east side of the skimmer gate.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8772440
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8772440
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8772440

Country Code	US
Station Name	Freshwater Canal Locks, LA
Latitude	29.5517
Longitude	-92.305
Operator	NOAA / National Ocean Service
Start Date	03-Aug-05
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8766072
Time Offset	
Instrument Type	Pressure sensor
Site of Measuring Point	The gauge is located south of the locks on a cement section of the pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8766072
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8766072
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8766072

Country Code	US
Station Name	Galveston Bay Entrance, North Jetty, TX
Latitude	29.3567
Longitude	-94.725
Operator	NOAA / National Ocean Service
Start Date	14-Apr-00
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8771341
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge is located 0.8 km (0.4 nm) south of the ferry landing at Port Bolivar, 48.3 km (26.1 nm) SE of the North Jetty.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8771341
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8771341
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8771341

Country Code	US
Station Name	Galveston Pier 21, TX
Latitude	29.31
Longitude	-94.793
Operator	NOAA / National Ocean Service
Start Date	01-Jan-04
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8771450
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge and staff are on the north end of the dock for mooring the historical ship ELLISA.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8771450
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2973
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8771450
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8771450

Country Code	US
Station Name	Galveston Pleasure Pier, TX
Latitude	29.285
Longitude	-94.788
Operator	NOAA / National Ocean Service
Start Date	01-Jan-57
End Date	20-Jul-11
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8771510
Time Offset	
Instrument Type	No description
Site of Measuring Point	The tide gauge and staff are approximately 0.3 km (0.2 mi) SE of Seawall Boulevard on the SE corner of the pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8771510
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=2973
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8771510
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8771510

Country Code	US
Station Name	Galveston Railroad Bridge,
Latitude	29.3017
Longitude	-94.8967
Operator	NOAA / National Ocean Service
Start Date	01-Sep-12
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8771486
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8771486
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8771486

Country Code	US
Station Name	Grand Bay NERR, Mississippi Sound, MS
Latitude	30.4133
Longitude	-88.4033
Operator	NOAA / National Ocean Service
Start Date	10-May-10
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8740166
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8740166
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8740166
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8740166

Country Code	US
Station Name	Grand Isle, LA
Latitude	29.263
Longitude	-89.957
Operator	NOAA / National Ocean Service
Start Date	02-Aug-47
End Date	14-May-80
Datum	
Time Offset	
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	Monthly mean
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8761720
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8761720

Country Code	US
Station Name	Haulover Pier, N. Miami Beach, FL
Latitude	25.903
Longitude	-80.12
Operator	NOAA / National Ocean Service
Start Date	08-Jul-81
End Date	24-Sep-92
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8723080
Time Offset	
Instrument Type	No description
Site of Measuring Point	The tide gauge and electric tape gauge were on an elevated platform at the offshore end of the pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8723080
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8723080
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8723080

Country Code	US
Station Name	High Island, TX
Latitude	29.595
Longitude	-94.39
Operator	NOAA / National Ocean Service
Start Date	25-Nov-12
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8770808
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8770808
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8770808

Country Code	US
Station Name	I-10 Bonnet Carre Floodway,
Latitude	30.0683
Longitude	-90.39
Operator	NOAA / National Ocean Service
Start Date	08-Apr-15
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8762483
Time Offset	
Instrument Type	Microwave radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8762483
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8762483

Country Code	US
Station Name	I-295 Bridge, St Johns River, FL
Latitude	30.1917
Longitude	-81.69
Operator	NOAA / National Ocean Service
Start Date	25-Apr-95
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8720357
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge was located at the NE corner of the wooden pier at the club.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8720357
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8720357
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8720357

Country Code	US
Station Name	Jacksonville
Latitude	30.35
Longitude	-81.617
Operator	NOAA / National Ocean Service
Start Date	1953
End Date	1968
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/716.php

Country Code	US
Station Name	Key Colony Beach, FL
Latitude	24.718
Longitude	-81.017
Operator	NOAA / National Ocean Service
Start Date	16-Jun-76
End Date	01-Sep-98
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8723962
Time Offset	
Instrument Type	No description
Site of Measuring Point	The tide station is located on the SE end of the Sunset Beach Club pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8723962
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8723962
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8723962

Country Code	US
Station Name	Key West, FL
Latitude	24.555
Longitude	-81.807
Operator	NOAA / National Ocean Service
Start Date	18-Jan-13
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8724580
Time Offset	
Instrument Type	1) standard mechanical, float/wire (1913-1967); 2) analog-to-digital (ADR) recorder, float/wire (1967-1994); 3) Aquatrak acoustic sensor/protective well, NOAA Next Generation Water Level Measuring System (NGWLMS) (1994-)
Site of Measuring Point	The tide gauge is located on the concrete sea wall near the north property line of the Naval Base.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8724580
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=1935
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8724580
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8724580

Country Code	US
Station Name	LAWMA, Amerada Pass, LA
Latitude	29.45
Longitude	-91.3383
Operator	NOAA / National Ocean Service
Start Date	01-Nov-05
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8764227
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge is located at the mouth of the Lawma Canal on a 3.00 m x 3.00 m (9.8 ft x 9.8 ft) raised platform on top of a single pile structure.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8764227
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8764227
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8764227

Country Code	US
Station Name	Lake Charles
Latitude	30.22
Longitude	-93.22
Operator	NOAA / National Ocean Service
Start Date	01-Mar-32
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8767816
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge was located on a small dock near the SE corner of Lake Charles.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8767816
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8767816
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8767816

Country Code	US
Station Name	Lake Worth Pier, FL
Latitude	26.612
Longitude	-80.033
Operator	NOAA / National Ocean Service
Start Date	14-Apr-70
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8722670
Time Offset	
Instrument Type	Microwave radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8722670
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8722670

Country Code	US
Station Name	Lynchburg Landing, TX
Latitude	29.765
Longitude	-95.0783
Operator	NOAA / National Ocean Service
Start Date	18-Oct-83
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8770733
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8770733
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8770733

Country Code	US
Station Name	Manchester, TX
Latitude	29.7267
Longitude	-95.265
Operator	NOAA / National Ocean Service
Start Date	01-Jan-95
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8770777
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8770777
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8770777

Country Code	US
Station Name	Marathon Shores, FL
Latitude	24.733
Longitude	-81.033
Operator	NOAA / National Ocean Service
Start Date	1966
End Date	1974
Datum	
Time Offset	
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/1187.php

Country Code	US
Station Name	Matagorda Bay Entrance Channel, TX
Latitude	28.4267
Longitude	-96.3283
Operator	NOAA / National Ocean Service
Start Date	18-Sep-14
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8773767
Time Offset	
Instrument Type	Microwave radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8773767
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8773767

Country Code	US
Station Name	Matagorda City, TX
Latitude	28.71
Longitude	-95.9133
Operator	NOAA / National Ocean Service
Start Date	10-Oct-12
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8773146
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8773146
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8773146

Country Code	US
Station Name	Mayport (Bar Pilots Dock), FL
Latitude	30.398
Longitude	-81.428
Operator	NOAA / National Ocean Service
Start Date	29-Jun-95
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8720218
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge was installed on the west end of the Pilot Association dock.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8720218
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8720218
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8720218

Country Code	US
Station Name	Mayport (Ferry Depot), FL
Latitude	30.393
Longitude	-81.432
Operator	NOAA / National Ocean Service
Start Date	26-Apr-28
End Date	30-Apr-08
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8720220
Time Offset	
Instrument Type	No description
Site of Measuring Point	The tide gauge and staff were located on the north corner of the ferry maintenance pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8720220
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8720220
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8720220

Country Code	US
Station Name	Mckay Bay Entrance, FL
Latitude	27.9133
Longitude	-82.425
Operator	NOAA / National Ocean Service
Start Date	24-Mar-76
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8726667
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge is located at the south end of the loading dock west of the conveyor building.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8726667
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8726667
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8726667

Country Code	US
Station Name	Miami Beach, FL
Latitude	25.768
Longitude	-80.132
Operator	NOAA / National Ocean Service
Start Date	27-May-31
End Date	25-Jul-81
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8723170
Time Offset	
Instrument Type	
Site of Measuring Point	The gauge and staff were on the pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8723170
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8723170
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8723170

Country Code	US
Station Name	Mobile State Docks, AL
Latitude	30.705
Longitude	-88.04
Operator	NOAA / National Ocean Service
Start Date	24-Mar-80
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8737048
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge and staff were at the east end of Pier A South (just south of bench mark 7048 A 1980).
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8737048
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8737048
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8737048

Country Code	US
Station Name	Morgans Point, TX
Latitude	29.6817
Longitude	-94.985
Operator	NOAA / National Ocean Service
Start Date	18-Jun-73
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8770613
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge and staff are located on a small wooden dock on the east side of the concrete dock.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8770613
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8770613
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8770613

Country Code	US
Station Name	Naples, FL
Latitude	26.132
Longitude	-81.807
Operator	NOAA / National Ocean Service
Start Date	04-Mar-65
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8725110
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge and staff are located about half way out on the municipal pier at the end of 12th Avenue South.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8725110
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3045
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8725110
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8725110

Country Code	US
Station Name	New Canal Station
Latitude	30.03
Longitude	-90.11
Operator	NOAA / National Ocean Service
Start Date	21-Nov-82
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8761927
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8761927
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8761927
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8761927

Country Code	US
Station Name	Nueces Bay (TCOON), TX
Latitude	27.8317
Longitude	-97.485
Operator	NOAA / National Ocean Service
Start Date	25-Jan-10
End Date	14-Oct-15
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8775244
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8775244
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8775244

Country Code	US
Station Name	Old Port Tampa, FL
Latitude	27.8583
Longitude	-82.5533
Operator	NOAA / National Ocean Service
Start Date	17-Jul-91
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8726607
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge is located on the Picnic Island Fishing Pier next to the parking lot of the plant.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8726607
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8726607
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8726607

Country Code	US
Station Name	Packery Channel, TX
Latitude	27.63
Longitude	-97.2367
Operator	NOAA / National Ocean Service
Start Date	30-Nov-88
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8775792
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8775792
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8775792

Country Code	US
Station Name	Padre Island, South End, TX
Latitude	26.068
Longitude	-97.152
Operator	NOAA / National Ocean Service
Start Date	01-Sep-78
End Date	05-May-94
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8779751
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8779751

Country Code	US
Station Name	Palm Beach, FL
Latitude	26.7
Longitude	-80.05
Operator	NOAA / National Ocean Service
Start Date	09-Aug-76
End Date	02-Dec-86
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8722621
Time Offset	
Instrument Type	No description
Site of Measuring Point	The tide gauge and staff were located on the dock.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8722621
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8722621
Document URL	https://tidesandcurrents.noaa.gov/inventory.html?id=8722621

Country Code	US
Station Name	Panama City
Latitude	30.15
Longitude	-85.67
Operator	NOAA / National Ocean Service
Start Date	11-Feb-73
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8729108
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge and staff are located at the end of Harrison Avenue at the NW corner of the pier at Panama City Marina.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8729108
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8729108
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8729108

Country Code	US
Station Name	Panama City Beach, FL
Latitude	30.2133
Longitude	-85.8783
Operator	NOAA / National Ocean Service
Start Date	18-Sep-89
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8729210
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge is located at the NE corner of the center enlarged portion of the pier which houses the restrooms.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8729210
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=1888
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8729210
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8729210

Country Code	US
Station Name	Pascagoula
Latitude	30.37
Longitude	-88.52
Operator	NOAA / National Ocean Service
Start Date	09-Sep-05
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8741533
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The gauge is located on the northern section of the pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8741533
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8741533
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8741533

Country Code	US
Station Name	Pensacola, FL
Latitude	30.403
Longitude	-87.21
Operator	NOAA / National Ocean Service
Start Date	30-Apr-23
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8729840
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge is located on the east side of the pier, near the NE corner of the large parking area.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8729840
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=1887
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8729840
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8729840

Country Code	US
Station Name	Pilots Station East
Latitude	28.93
Longitude	-89.41
Operator	NOAA / National Ocean Service
Start Date	08-Mar-04
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8760922
Time Offset	
Instrument Type	Microwave radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8760922
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8760922

Country Code	US
Station Name	Pilottown, LA
Latitude	29.1783
Longitude	-89.2583
Operator	NOAA / National Ocean Service
Start Date	19-Dec-80
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8760721
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8760721
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8760721
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8760721

Country Code	US
Station Name	Port Aransas, H. Caldwell Pier
Latitude	27.827
Longitude	-97.05
Operator	NOAA / National Ocean Service
Start Date	15-May-58
End Date	03-Sep-84
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8775270
Time Offset	
Instrument Type	No description
Site of Measuring Point	The tide gauge and staff were located on the old (wooden) Hooke Caldwell Fishing Pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8775270
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=1878
Sampling Interval	
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8775270
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8775270

Country Code	US
Station Name	Port Arthur, TX
Latitude	29.87
Longitude	-93.93
Operator	NOAA / National Ocean Service
Start Date	01-Apr-96
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8770475
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8770475
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8770475

Country Code	US
Station Name	Port Fourchon, Belle Pass, LA
Latitude	29.1133
Longitude	-90.1983
Operator	NOAA / National Ocean Service
Start Date	18-Jul-03
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8762075
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8762075
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8762075

Country Code	US
Station Name	Port Ingleside (TCOON), TX
Latitude	27.8217
Longitude	-97.2033
Operator	NOAA / National Ocean Service
Start Date	07-Nov-89
End Date	12-Aug-14
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8775283
Time Offset	
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8775283
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8775283

Country Code	US
Station Name	Port Isabel
Latitude	26.67
Longitude	-97.22
Operator	NOAA / National Ocean Service
Start Date	31-Mar-44
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8779770
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge and staff are approximately 24.4 m (80 ft) north of the NE corner of the warehouse.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8779770
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3518
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8779770
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8779770

Country Code	US
Station Name	Port Lavaca (TCOON), TX
Latitude	28.64
Longitude	-96.595
Operator	NOAA / National Ocean Service
Start Date	28-Jan-89
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8773259
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8773259
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8773259

Country Code	US
Station Name	Port Manatee, FL
Latitude	27.6383
Longitude	-82.5633
Operator	NOAA / National Ocean Service
Start Date	24-Mar-76
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8726384
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide station is located just north of the NW corner of the turning basin along the bulkhead fronting the bay, near Berth 5.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8726384
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8726384
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8726384

Country Code	US
Station Name	Port Mansfield
Latitude	26.555
Longitude	-97.4217
Operator	NOAA / National Ocean Service
Start Date	11-Aug-62
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8778490
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8778490
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8778490

Country Code	US
Station Name	Port O'Connor, TX
Latitude	28.4517
Longitude	-96.3883
Operator	NOAA / National Ocean Service
Start Date	28-Jan-89
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8773701
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8773701
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8773701

Country Code	US
Station Name	Racy Point, St Johns River, FL
Latitude	29.8
Longitude	-81.55
Operator	NOAA / National Ocean Service
Start Date	26-Apr-95
End Date	23-Mar-17
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8720625
Time Offset	
Instrument Type	No description
Site of Measuring Point	The tide gauge was located on a navigation structure about 79 m (260 ft) south of the bulkhead along the St. Johns River. The gauge site can only be reached by boat from the nearby Racy Point Park boat ramp.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8720625
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8720625
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8720625

Country Code	US
Station Name	Rainbow Bridge (TCOON), TX
Latitude	29.98
Longitude	-93.8817
Operator	NOAA / National Ocean Service
Start Date	22-Jul-93
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8770520
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8770520
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8770520

Country Code	US
Station Name	Realitos Peninsula (TCOON), TX
Latitude	26.2617
Longitude	-97.285
Operator	NOAA / National Ocean Service
Start Date	23-Feb-09
End Date	13-May-16
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8779280
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8779280
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8779280

Country Code	US
Station Name	Red Bay Point, St Johns River, FL
Latitude	29.9817
Longitude	-81.635
Operator	NOAA / National Ocean Service
Start Date	24-Apr-95
End Date	07-Oct-16
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8720503
Time Offset	
Instrument Type	Aquatrak (acoustic)
Site of Measuring Point	The gauge was attached to the west side of the pier. This location is about 152.40 m (500.0 ft) south of the north end of the pier. Note: This is a temporary aqua trak which is subject to being removed.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8720503
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8720503
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8720503

Country Code	US
Station Name	Rincon Del San Jose, TX
Latitude	26.825
Longitude	-97.4917
Operator	NOAA / National Ocean Service
Start Date	04-Mar-90
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8777812
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8777812
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8777812

Country Code	US
Station Name	Rockport, TX
Latitude	28.022
Longitude	-97.047
Operator	NOAA / National Ocean Service
Start Date	25-Feb-37
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8774770
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge is on the southern-most pier in the Yacht Basin.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8774770
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3516
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8774770
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8774770

Country Code	US
Station Name	Rollover Pass, TX
Latitude	29.515
Longitude	-94.5133
Operator	NOAA / National Ocean Service
Start Date	24-Feb-04
End Date	24-Mar-17
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8770971
Time Offset	
Instrument Type	No description
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8770971
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8770971

Country Code	US
Station Name	S. Bird Island,
Latitude	27.48
Longitude	-97.3217
Operator	NOAA / National Ocean Service
Start Date	17-Dec-03
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8776139
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8776139
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8776139

Country Code	US
Station Name	Sabine Pass North, TX
Latitude	29.728
Longitude	-93.87
Operator	NOAA / National Ocean Service
Start Date	28-Jan-85
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8770570
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge was located on the inside corner of the L shaped pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8770570
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8770570
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8770570

Country Code	US
Station Name	San Luis Pass,
Latitude	29.095
Longitude	-95.1133
Operator	NOAA / National Ocean Service
Start Date	01-Jan-90
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8771972
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8771972
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8771972

Country Code	US
Station Name	Sargent, TX
Latitude	28.7717
Longitude	-95.6167
Operator	NOAA / National Ocean Service
Start Date	08-Nov-12
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8772985
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8772985
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8772985

Country Code	US
Station Name	Seadrift (TCOON), TX
Latitude	28.4083
Longitude	-96.7117
Operator	NOAA / National Ocean Service
Start Date	09-Feb-04
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8773037
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8773037
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8773037

Country Code	US
Station Name	Shell Beach
Latitude	29.87
Longitude	-89.67
Operator	NOAA / National Ocean Service
Start Date	07-Nov-79
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8761305
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge and staff were located on a 7m x 4 m (22 ft x 14 ft) concrete platform at the mouth of the bayou.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8761305
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8761305
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8761305

Country Code	US
Station Name	Shell Point, Walker Creek, FL
Latitude	30.06
Longitude	-84.29
Operator	NOAA / National Ocean Service
Start Date	27-Apr-73
End Date	02-Dec-86
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8728229
Time Offset	
Instrument Type	No description
Site of Measuring Point	The tide gauge and staff were located at the NE corner of the pier next to the floating dock.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8728229
GNSS	
Sampling Interval	Monthly mean
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8728229
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8728229

Country Code	US
Station Name	South Padre Island CG Station (TCOON), TX
Latitude	26.0767
Longitude	-97.1767
Operator	NOAA / National Ocean Service
Start Date	15-Apr-93
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8779748
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8779748
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8779748

Country Code	US
Station Name	Southbank Riverwalk, St Johns River, FL
Latitude	30.32
Longitude	-81.6583
Operator	NOAA / National Ocean Service
Start Date	26-Apr-95
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8720226
Time Offset	
Instrument Type	Microwave radar
Site of Measuring Point	The station is located on an elevated aluminum structure approximately 4 m (13 ft) north of the pedestrian ramp leading up to the Main Street Bridge and approximately 15 m (50 ft) west of the Main Street Bridge.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8720226
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8720226
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8720226

Country Code	US
Station Name	St Petersburg, Tampa Bay, FL
Latitude	27.76
Longitude	-82.627
Operator	NOAA / National Ocean Service
Start Date	14-Dec-46
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8726520
Time Offset	
Instrument Type	Microwave radar
Site of Measuring Point	The tide station is on an elevated platform at the end of a 18 m (60 ft) walkway, about 76 m (250 ft) south of the boat launch ramp.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8726520
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3347
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8726520
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8726520

Country Code	US
Station Name	St. Augustine
Latitude	29.85
Longitude	-81.27
Operator	NOAA / National Ocean Service
Start Date	05-Jan-74
End Date	14-May-79
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8720576
Time Offset	
Instrument Type	No description
Site of Measuring Point	The tide gauge and staff were located on City Yacht Pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8720576
GNSS	
Sampling Interval	Monthly mean
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8720576
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8720576

Country Code	US
Station Name	St. Marks
Latitude	30.067
Longitude	-84.183
Operator	NOAA / National Ocean Service
Start Date	1965
End Date	1975
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/1136.php

Country Code	US
Station Name	Texas Point, Sabine Pass, TX
Latitude	29.6883
Longitude	-93.8417
Operator	NOAA / National Ocean Service
Start Date	16-Nov-11
End Date	
Datum	
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide station is on the NW corner of the first finger pier belonging to the Sabine Bank Pilots Station.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8770822
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8770822
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8770822

Country Code	US
Station Name	Trident Pier, FL
Latitude	28.415
Longitude	-80.592
Operator	NOAA / National Ocean Service
Start Date	12-Oct-94
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8721604
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge is located at the south end of the pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8721604
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3110
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8721604
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8721604

Country Code	US
Station Name	Turkey Point, FL
Latitude	29.915
Longitude	-84.512
Operator	NOAA / National Ocean Service
Start Date	01-May-73
End Date	01-Jan-97
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8728360
Time Offset	
Instrument Type	No description
Site of Measuring Point	The tide gauge and staff are on the end of the Oceanographic Laboratory pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8728360
GNSS	
Sampling Interval	Monthly mean
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8728360
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8728360

Country Code	US
Station Name	USCG Freeport, TX
Latitude	28.943
Longitude	-95.302
Operator	NOAA / National Ocean Service
Start Date	20-Sep-06
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8772447
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8772447
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8772447
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8772447

Country Code	US
Station Name	USS Lexington, TX
Latitude	27.8117
Longitude	-97.39
Operator	NOAA / National Ocean Service
Start Date	08-Jan-04
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8775296
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8775296
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8775296

Country Code	US
Station Name	Vaca Key, FL
Latitude	24.712
Longitude	-81.105
Operator	NOAA / National Ocean Service
Start Date	04-Dec-70
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8723970
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge and staff are on a platform at the NW corner of the Coast Guard boat basin.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8723970
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8723970
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8723970

Country Code	US
Station Name	Virginia Key, FL
Latitude	25.73
Longitude	-80.162
Operator	NOAA / National Ocean Service
Start Date	17-Jan-94
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8723214
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide station is located at the outer end of the concrete pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8723214
GNSS	http://www.sonel.org/spip.php?page=gps&idStation=3035
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8723214
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8723214

Country Code	US
Station Name	Waveland, MS
Latitude	30.282
Longitude	-89.367
Operator	NOAA / National Ocean Service
Start Date	24-Oct-96
End Date	29-Aug-08
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8747766
Time Offset	
Instrument Type	No description
Site of Measuring Point	The tide gauge is located near the outer end of the pier on the SW side.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8747766
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8747766
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8747766

Country Code	US
Station Name	Weeks Bay, Mobile Bay, AL
Latitude	30.4167
Longitude	-87.825
Operator	NOAA / National Ocean Service
Start Date	23-Aug-07
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8732828
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The station is located on the left next to the canal.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8732828
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8732828
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8732828

Country Code	US
Station Name	West Bank 1, Bayou Gauche, LA
Latitude	29.7883
Longitude	-90.42
Operator	NOAA / National Ocean Service
Start Date	02-May-03
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8762482
Time Offset	
Instrument Type	No description
Site of Measuring Point	The tide gauge and benchmarks are in the vicinity of the Bayou Gauche Volunteer Fire Department Boat house.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8762482
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8762482
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8762482

Country Code	US
Station Name	West Fowl River Bridge, AL
Latitude	30.3767
Longitude	-88.1583
Operator	NOAA / National Ocean Service
Start Date	22-Apr-11
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=8738043
Time Offset	
Instrument Type	Microwave radar
Site of Measuring Point	The microwave is located on the new 188 bridge over the west branch of the river.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=8738043
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=8738043
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=8738043

Country Code	UY
Station Name	Colonia
Latitude	-34.483
Longitude	-57.85
Operator	Servicio de Oceanografía, Hidrografía y Meteorología de la Armada
Start Date	1938
End Date	
Datum	
Time Offset	UTC - 3
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/433.php

Country Code	UY
Station Name	La Paloma
Latitude	-34.65
Longitude	-54.15
Operator	Servicio de Oceanografía, Hidrografía y Meteorología de la Armada
Start Date	1955
End Date	
Datum	
Time Offset	UTC - 3
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/764.php

Country Code	UY
Station Name	Montevideo (Punta Lobos)
Latitude	-34.9
Longitude	-56.25
Operator	Servicio de Oceanografía, Hidrografía y Meteorología de la Armada
Start Date	1984
End Date	
Datum	
Time Offset	UTC - 3
Instrument Type	Limnógrafo OTT (Analogue paper chart), Aanderaa WLR-7 (pressure gauge)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/uruguay_2001.pdf

Country Code	UY
Station Name	Muelle Mántaras
Latitude	-34.89333
Longitude	-56.19833
Operator	Servicio de Oceanografía, Hidrografía y Meteorología de la Armada
Start Date	1975
End Date	1997
Datum	
Time Offset	UTC - 3
Instrument Type	Limnógrafo OTT (Analogue paper chart)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/uruguay_2001.pdf

Country Code	UY
Station Name	Muelle Washington
Latitude	-34.91056
Longitude	-56.215
Operator	Servicio de Oceanografía, Hidrografía y Meteorología de la Armada
Start Date	1955
End Date	1971
Datum	
Time Offset	UTC - 3
Instrument Type	Limnógrafo Negretti (Analogue paper chart)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/uruguay_2001.pdf

Country Code	UY
Station Name	Punta Del Este
Latitude	-34.967
Longitude	-54.95
Operator	Servicio de Oceanografía, Hidrografía y Meteorología de la Armada
Start Date	1938
End Date	
Datum	
Time Offset	UTC - 3
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/uruguay_2001.pdf

Country Code	VC
Station Name	Coast Guard Base, Calliaqua, St. Vincent
Latitude	13.1166
Longitude	-61.1833
Operator	National Emergency Management Office (Saint Vincent & Grenadines)
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=calq&output=tab&period=0.5
Document URL	

Country Code	VC
Station Name	Kingstown
Latitude	13.13056
Longitude	-61.19861
Operator	CPACC/MACC
Start Date	12-Nov-98
End Date	
Datum	
Time Offset	
Instrument Type	Acoustic
Site of Measuring Point	Monitoring Station is located on the southwest end of the concrete pier located on the St. Vincent Coast Guard Base at Calliaqua Bay.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	GOES
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/stations.xls

Country Code	VE
Station Name	Amuay
Latitude	11.75
Longitude	-70.21667
Operator	Instituto Geografico de Venezuela Simon Bolivar
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Potentiometer
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/reportrafaelmelean_2003.pdf

Country Code	VE
Station Name	Carúpano
Latitude	10.6925
Longitude	-63.245
Operator	Instituto Geografico de Venezuela Simon Bolivar
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Potentiometer
Site of Measuring Point	Main Pier of the Port in Carúpano
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/reportrafaelmelean_2003.pdf

Country Code	VE
Station Name	Cumaná
Latitude	10.46667
Longitude	-64.2
Operator	Instituto Geografico de Venezuela Simon Bolivar
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Potentiometer
Site of Measuring Point	Dock of the port.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/reportrafaelmelean_2003.pdf

Country Code	VE
Station Name	Guiria
Latitude	10.567
Longitude	-62.283
Operator	Ministerio de Obras Publicas, Direccion de Cartografia Nacional
Start Date	1963
End Date	
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/1053.php

Country Code	VE
Station Name	La Guaira
Latitude	10.61667
Longitude	-66.93333
Operator	Instituto Geografico de Venezuela Simon Bolivar
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Potentiometer
Site of Measuring Point	Pier No. 5. Catia La Mar.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/reportrafaelmelean_2003.pdf

Country Code	VE
Station Name	Puerto Cabello
Latitude	10.48361
Longitude	-68.00417
Operator	Instituto Geografico de Venezuela Simon Bolivar
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Potentiometer
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/reportrafaelmelean_2003.pdf

Country Code	VE
Station Name	Puerto de Hierro
Latitude	10.617
Longitude	-62.083
Operator	Instituto Geografico de Venezuela Simon Bolivar
Start Date	1955
End Date	
Datum	
Time Offset	
Instrument Type	Potentiometer
Site of Measuring Point	Dock A.
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/reportrafaelmelean_2003.pdf

Country Code	VE
Station Name	Punta de Piedras
Latitude	10.90556
Longitude	-64.10833
Operator	Instituto Geografico de Venezuela Simon Bolivar
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Potentiometer
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.gloss-sealevel.org/publications/documents/reportrafaelmelean_2003.pdf

Country Code	VG
Station Name	Tortola
Latitude	18.42
Longitude	-64.61
Operator	Puerto Rico Seismic Network (PRSN)
Start Date	
End Date	
Datum	
Time Offset	
Instrument Type	Acoustic (Aquatrak)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	1 min
Latency	9 min
Delivery Method	GTS
Data URL	http://www.ioc-sealevelmonitoring.org/bgraph.php?code=tort&output=tab&period=0.5
Document URL	

Country Code	VI
Station Name	Charlotte Amalie
Latitude	18.335
Longitude	-64.92
Operator	NOAA / National Ocean Service
Start Date	27-Jan-75
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9751639
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide station is at the NE end of the West Indian Dock compound at the base of a small wooden pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=9751639
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9751639
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9751639

Country Code	VI
Station Name	Christiansted Harbor, St Croix
Latitude	17.75
Longitude	-64.705
Operator	NOAA / National Ocean Service
Start Date	10-Feb-81
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9751364
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	Docks in Gallows Bay.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=9751364
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9751364
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9751364

Country Code	VI
Station Name	Lameshur Bay, St John
Latitude	18.317
Longitude	-64.723
Operator	NOAA / National Ocean Service
Start Date	21-Feb-83
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9751381
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The water level sensor is located on the south side of the pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=9751381
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9751381
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9751381

Country Code	VI
Station Name	Lime Tree Bay. St. Croix
Latitude	17.693
Longitude	-64.753
Operator	NOAA / National Ocean Service
Start Date	13-Oct-77
End Date	
Datum	https://tidesandcurrents.noaa.gov/datums.html?id=9751401
Time Offset	
Instrument Type	Acoustic WL
Site of Measuring Point	The tide gauge is located on the south face of the pier.
Benchmark	https://tidesandcurrents.noaa.gov/benchmarks.html?id=9751401
GNSS	
Sampling Interval	6 min
Latency	
Delivery Method	
Data URL	https://tidesandcurrents.noaa.gov/waterlevels.html?id=9751401
Document URL	https://tidesandcurrents.noaa.gov/stationhome.html?id=9751401

Country Code	ZA
Station Name	Cape Town
Latitude	-33.905
Longitude	18.435
Operator	South African Navy Hydrographic Office
Start Date	15-Jun-67
End Date	
Datum	All tidal heights are given above Chart Datum, which is now Lowest Astronomical Tide (LAT) in all ports of the Republic of South Africa and Namibia.
Time Offset	UTC + 2
Instrument Type	1967-1996 float and stilling well type, SRD acoustic gauge, 1996-, Ott Kalesto radar gauge, 3/2008-, NetDL, RLS Radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=29964&version=1.0&lang=1&format=1

Country Code	ZA
Station Name	Hermanus
Latitude	-34.433
Longitude	19.233
Operator	South African Navy Hydrographic Office
Start Date	1958
End Date	1964
Datum	
Time Offset	
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	http://www.psmsl.org/data/obtaining/stations/928.php
Document URL	

Country Code	ZA
Station Name	Knysna
Latitude	-34.049
Longitude	23.046
Operator	South African Navy Hydrographic Office
Start Date	1952
End Date	
Datum	All tidal heights are given above Chart Datum, which is now Lowest Astronomical Tide (LAT) in all ports of the Republic of South Africa and Namibia.
Time Offset	UTC + 2
Instrument Type	LEA float-type 1952 - 1971, KENT float-type 1970 - 1996, Acoustic SRD (1997-9/2006), Ott Kalesto radar gauge (9/2006-)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=29964&version=1.0&lang=1&format=1

Country Code	ZA
Station Name	Mossel Bay
Latitude	-34.179
Longitude	22.135
Operator	South African Navy Hydrographic Office
Start Date	1958
End Date	
Datum	All tidal heights are given above Chart Datum, which is now Lowest Astronomical Tide (LAT) in all ports of the Republic of South Africa and Namibia.
Time Offset	UTC + 2
Instrument Type	KENT float-type 1958 - 1996, Acoustic SRD (1997-5/2007), OTT Kalesto Radar gauge (5/2007-), NetDL Radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=29964&version=1.0&lang=1&format=1

Country Code	ZA
Station Name	Port Nolloth
Latitude	-29.257
Longitude	16.868
Operator	South African Navy Hydrographic Office
Start Date	03-Jan-58
End Date	
Datum	All tidal heights are given above Chart Datum, which is now Lowest Astronomical Tide (LAT) in all ports of the Republic of South Africa and Namibia.
Time Offset	UTC + 2
Instrument Type	KENT float-type 1958-1996, SRD acoustic tide gauge 11/1997-4/2004, Ott Kalesto radar gauge (7/2004-)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=29964&version=1.0&lang=1&format=1

Country Code	ZA
Station Name	Saldanha Bay
Latitude	-33.067
Longitude	18
Operator	South African Navy Hydrographic Office
Start Date	17-Sep-73
End Date	
Datum	All tidal heights are given above Chart Datum, which is now Lowest Astronomical Tide (LAT) in all ports of the Republic of South Africa and Namibia.
Time Offset	UTC + 2
Instrument Type	KENT float-type 1973 - 1986, LEA float-type 1985, SIAP float-type 1985-1996, SRD acoustic tide gauge 1996-4/2008, Ott Kalesto radar gauge 4/2008-, NetDL, RLS Radar
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=29964&version=1.0&lang=1&format=1

Country Code	ZA
Station Name	Simon's Town
Latitude	-34.188
Longitude	18.44
Operator	South African Navy Hydrographic Office
Start Date	1957
End Date	
Datum	All tidal heights are given above Chart Datum, which is now Lowest Astronomical Tide (LAT) in all ports of the Republic of South Africa and Namibia.
Time Offset	UTC + 2
Instrument Type	Float and stilling well type: Kent (1958-1976), SIMPLEX (1977-1983), LEA (1983-1996), Acoustic SRD (1997-1/2003), NetDL, and Kalesto Radar fitted with satellite transmitter (1/2003-)
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://ioc-unesco.org/components/com_oe/oe.php?task=download&id=29964&version=1.0&lang=1&format=1

Country Code	ZA
Station Name	Stompneus Bay
Latitude	-32.717
Longitude	17.983
Operator	South African Navy Hydrographic Office
Start Date	1957
End Date	1962
Datum	
Time Offset	UTC + 2
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/882.php

Country Code	ZA
Station Name	Table Bay Harbour
Latitude	-33.917
Longitude	18.433
Operator	South African Navy Hydrographic Office
Start Date	1957
End Date	1972
Datum	
Time Offset	UTC + 2
Instrument Type	
Site of Measuring Point	
Benchmark	
GNSS	
Sampling Interval	
Latency	
Delivery Method	
Data URL	
Document URL	http://www.psmsl.org/data/obtaining/stations/866.php